

GenCore version 5.1.4 ps 4578
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OM nucleic - nucleic search, using sw model

Run on: March 19, 2003, 15:54:33 ; Search time 293 Seconds
(without alignments)
4904.289 Million cell updates/sec

Title: US-09-315-355A-47
Perfect score: 1853
Sequence: 1 gatccctgagcgtgagcag.....aaagtaattccttaaacat 1853

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 538826 seqs, 387737923 residues

Total number of hits satisfying chosen parameters: 1077652

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications_NA.*
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
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3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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11: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
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13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	150	8.1	150	US-09-880-107-2725	Sequence 2725, Ap
2	53.2	2.9	2895	US-09-938-842A-2540	Sequence 2540, Ap
3	52.8	2.8	766	US-09-864-761-19608	Sequence 19608, A
4	52.8	2.8	1944	US-09-864-761-2825	Sequence 2825, Ap
5	49	2.6	1959	US-09-864-761-4012	Sequence 4012, Ap
6	47.8	2.6	583	US-09-864-761-20772	Sequence 20772, A
7	47	2.5	1626	US-09-764-848-19	Sequence 19, Appl
8	46.2	2.5	58985	US-09-901-152-3	Sequence 3, Appl
9	44.6	2.4	4439	US-09-864-761-20174	Sequence 20174, A
10	44.2	2.4	2142	US-09-917-800A-1567	Sequence 1567, Ap
11	43.8	2.4	888	US-09-770-445-502	Sequence 502, App
12	43.6	2.4	327	US-09-864-761-28059	Sequence 28059, A
13	43.6	2.4	575	US-09-864-761-20733	Sequence 20733, A
14	43.6	2.4	1969	US-09-864-761-3972	Sequence 3972, Ap
15	43.4	2.3	720	US-10-101-487-74	Sequence 74, Appl
16	43.4	2.3	720	US-10-101-487-76	Sequence 887, Appl
17	43	2.3	8895	US-09-764-853-887	Sequence 937, App
18	43	2.3	8895	US-09-764-853-937	Sequence 886, App
19	43	2.3	9656	US-09-764-853-886	

C	20	43	2.3	9656	10	US-09-764-853-933	Sequence 933, App
C	21	42.8	2.3	522	9	US-10-101-487-71	Sequence 71, Appl
C	22	42.8	2.3	530	9	US-10-101-487-73	Sequence 73, Appl
C	23	42.8	2.3	530	9	US-10-101-487-69	Sequence 69, Appl
C	24	42.8	2.3	554	9	US-10-101-487-106	Sequence 106, Appl
C	25	42.4	2.3	565	10	US-09-864-761-6633	Sequence 6633, Ap
C	26	42.2	2.3	1920	10	US-09-906-393A-35	Sequence 35, Appl
C	27	42.2	2.3	1958	10	US-09-791-406-3	Sequence 3, Appl
C	28	42.2	2.3	110096	10	US-09-880-107-1542	Sequence 1542, Ap
C	29	41.4	2.2	460	10	US-09-864-761-2587	Sequence 2587, Ap
C	30	41.4	2.2	466	10	US-09-864-761-98	Sequence 98, Appl
C	31	41.4	2.2	582	10	US-09-864-761-8188	Sequence 8188, Appl
C	32	41.2	2.2	475	10	US-09-864-761-1361	Sequence 1361, Ap
C	33	41.2	2.2	512	10	US-09-864-761-18121	Sequence 18121, A
C	34	40.4	2.2	345	10	US-09-822-263-7	Sequence 7, Appl
C	35	40.2	2.2	520	9	US-10-184-644-332	Sequence 332, App
C	36	40.2	2.2	632	10	US-09-864-761-20742	Sequence 20742, A
C	37	40.2	2.2	1983	10	US-09-864-761-3981	Sequence 3981, Ap
C	38	39.6	2.1	422	10	US-09-864-761-22453	Sequence 22453, A
C	39	39.6	2.1	484	10	US-09-864-761-5690	Sequence 5690, Ap
C	40	39.2	2.1	660	10	US-09-864-761-19488	Sequence 19488, A
C	41	39.2	2.1	962	10	US-09-864-761-2772	Sequence 2772, Ap
C	42	39.2	2.1	1881	9	US-09-938-842A-2650	Sequence 2650, Ap
C	43	39	2.1	501	10	US-09-864-761-9004	Sequence 9004, Ap
C	44	38.8	2.1	342	10	US-09-822-263-11	Sequence 11, Appl
C	45	38.8	2.1	555	10	US-09-822-263-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1	US-09-880-107-2725/C
Sequence 2725, Application US/09880107	
Patent No. US20020142981A1	
GENERAL INFORMATION:	
APPLICANT: Horne, Darci T.	
APPLICANT: Vockley, Joseph G.	
APPLICANT: Scherf, Uwe	
APPLICANT: Gene Logic, Inc.	
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer	
FILE REFERENCE: 44921-5028-WO	
CURRENT APPLICATION NUMBER: US/09/880,107	
CURRENT FILING DATE: 2001-06-14	
PRIOR APPLICATION NUMBER: US 60/211,379	
PRIOR FILING DATE: 2000-06-14	
PRIOR APPLICATION NUMBER: US 60/237,054	
PRIOR FILING DATE: 2000-10-02	
NUMBER OF SEQ ID NOS: 3950	
SOFTWARE: PatentIn Ver. 2.1	
SEQ ID NO 2725	
LENGTH: 150	
TYPE: DNA	
ORGANISM: Homo sapiens	
FEATURE:	
OTHER INFORMATION: Genbank Accession No. US20020142981A1 N92948	
US-09-880-107-2725	
Query Match	8.1%; Score 150; DB 10; Length 150;
Best Local Similarity	100.0%; Pred. No. 6.6e-33;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY 660 GGAATGCGTAATTGATCTGACCCAGATGATTCTACTGGAATTACATTGCTGTAGG 719	
DB 150 GGAATGCGTAATTGATCTGACCCAGATGATTCTACTGGAATTACATTGCTGTAGG 91	
QY 720 AAACATGACCCCTGTTATGAGTGGGACCTTGATATAGTGAGCTTTAGACCCAGT 779	
DB 90 AAACATGACCCCTGTTATGAGTGGGACCTTGATATAGTGAGCTTTAGACCCAGT 31	
QY 780 CTTACACCTCGGAAGTAACTTTCAAAAA 809	
DB 30 CTTACACCTCGGAAGTAACTTTCAAAAA 1	


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Query Match Similarity 2.6%; Score 49; DB 10; Length 1959;
Best Local Similarity 45.6%; Pred. No. 0.002;
Matches 172; Conservative 0; Mismatches 205; Indels 0; Gaps 0.

Qy 317 AGAGTGTGACCCAGAGATGACAGGACGCTTGATGATGATGAGTGAAGCTGCTGAGTACGACT 376
    |||||
Db 388 ATGATGTGTGCTATGATGATGATGACGCTGACCGTGATGTGATGATGATGATGATGATGATGAT 447
    |||||

Qy 377 TAGATTAATATATGATGAGGAAGGTGACCCAGATGCTGAGACTCTTGGTGAATCTCTCTTGG 436
    |||||
Db 448 ATAAATGATAGTATGATGATGTGGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 507
    |||||

Qy 437 GCTTACGCGCTACGGGAGTAATGATCAAGATCCTTACGTTACTCTGAAGAATACAGAAC 496
    |||||
Db 508 GTGGGTGATGATTAATGTGTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 567
    |||||

Qy 497 AATATGAACGTGAAGATTTCTTGATTTAGCCCAAGTGAATCTTATAGTTTGTGCGCGAG 556
    |||||
Db 568 GTGATGATGACAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 627
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Qy 557 CTGAACAGGACCAAGTGCATTTAGAGTGCATGTTTATATCAAGAAGAAGACTCTTTT 616
    |||||
Db 628 GTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 687
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Qy 617 ATGTACACCATGATATACCTTGTCTGATATCCTCTGATGATGATGATGATGATGATGATGATG 676
    |||||
Db 688 GTGGGTGATGATCAACATACCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 747
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Qy 677 ATCTTACCCAGATGAT 693
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Db 748 ATGATGATGATGATGAT 764
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RESULT 6
US-09-864-761-20772
; Sequence 20772, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hamzel, David K.

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	Query Match	2.6%	Score 47.8;	DB 10;	Length 583;	
	Best Local Similarity	47.0%;	Pred. No. 0.0021;			
	Matches 148; Conservative	0;	Mismatches 167;	Indels	0;	Gaps 0.
Oy	316 GAGATGCTGACCCACAGATGATCAGACGCCTTGATGTAGTGA	CTGACTGGCTGATGACGAC	375			
Dd	65 GATGATGACAGTAGATGATGATGATGATGATGGGATGATGATGACAGTATGATGT	T	124			
OY	376 TTGATTAAATATGATGAGGAAGGTGACCAAGTCTGAGACTCTTGCGAATCTCTTTG	A	435			

Db	125	GATGATGGTATGGTATGATGATGATGATGATGATGGGAAAGATGATGACAGTATGGT	184
Qy	436	GGCTCTACGGCTACGGGAGTAATGATCCAAAGTCCCTTAAGTACTCTGAAAGATACAGAA	495
Db	185	GGTATGATGATGACGATAGCGATGATGGGATGTATACAGTATGATTTGTGATGATGGTAT	244
Qy	496	CAATATGAAACCTGAAGATTTTCTTATTAAGCCAGATATATCTTATAGTTTGTGGCGA	555
Db	245	GATGATGATGGTATGATGGGGATGATGATACAGTATATGATGGTATGATGATGAT	304
Qy	556	GCTGAACAGGACCGATGCAATTTTAGAGGTGATGTTTATAATCAAGAAGAACTCTTTT	615
Db	305	GATGATGATGACGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	364
Qy	616	TATGTACACCATGAT	630
Db	365	GATGATGACGGTAT	379

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RESULT 7
US-09-764-848-19
; Sequence 19, Application US/09764848
; Patent No. US2002007270A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P1708
; CURRENT APPLICATION NUMBER: US/09/764,848
; PRIOR FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 1626
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-764-848-19

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Query Match	2.5%	Score 47	DB 10	Length 1626
Best Local Similarity	51.7%	Pred. No. 0.0066		
Matches 104	Conservative 1	Mismatches 96	Indels 0	Gaps 0

QY	208	GAGAAATTGCACAAGAAAGGTGGTGGCAGTGAATGAACAGAGAGACGAGCTTCACGAA	267
Db	372	GAAATATATAGAAAGAGAGAAATCTGATGCTGAATATATATGATGTTGACGCTAAAGAAA	431
QY	268	GATGCGATGCAGAGTGCACGCAACCCACAGGACGCCCAAGAGAGCCCTCGAGAGATGTGAC	327
Db	432	AAATATCAAGAGGAAAGCAGTTGGTCTCGCATCTATATTAAAGAAAGTTGAAGATTAAGAA	491
QY	328	CCAGAGGATGCACAGGACGCTTGATGATGATGATGAGCTGGCTGATGATGCACTTAGATAATAT	387
Db	492	TCAAGAGGAGAAAGAAAGAGATGAGAGATGAAGATCTTTCTAAATATTAATGATGATGAGAT	551
QY	388	GATGAGGAAGGTGACCCAGAT	408
Db	552	GAGGATGAAGATGACGCTGAT	572

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RESULT 8
US-09-901-152-3/c
Sequence 3, Application US/09901152
Publication No. US20030022824A1
GENERAL INFORMATION:
APPLICANT: HU, Song et al.
TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS, AND
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL001248
CURRENT APPLICATION NUMBER: US/09/901,152
CURRENT FILING DATE: 2001-07-10
NUMBER OF SEQ ID NOS: 5
SOFTWARE: fastseq for windows Version 4.0

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; SEQ ID NO 3
; LENGTH: 58985
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(58985)
; OTHER INFORMATION: n = A,T,C or G
IS-09-901-152-3

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Query Match	2.5%;	SCORE	46.2;	DB	9;	Length	58985;
Best Local Similarity	50.7%;	Pred. No.	0.11;				
Matches	11;	Conservative	0;	Mismatches	106;	Indels	0;
				Gaps			0;

[illegible]

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RESULT 9
US-09-864-761-20174/c
; Sequence 20174, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30

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<p>US-09-917-800A-1567</p> <p>OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_012749</p> <p>FEATURE:</p> <p>ORGANISM: Rattus norvegicus</p> <p>TYPE: DNA</p> <p>LENGTH: 2142</p> <p>SEQ ID NO 1567</p>	<p>Prior FILING DATE: 2001-05-11</p> <p>Prior APPLICATION NUMBER: US 60/290,645</p> <p>Prior FILING DATE: 2001-05-15</p> <p>Prior APPLICATION NUMBER: US 60/292,336</p> <p>Prior FILING DATE: 2001-05-22</p> <p>Prior APPLICATION NUMBER: US 60/295,798</p> <p>Prior FILING DATE: 2001-06-06</p> <p>Prior APPLICATION NUMBER: US 60/297,457</p> <p>Prior FILING DATE: 2001-06-13</p> <p>Prior APPLICATION NUMBER: US 60/298,884</p> <p>Prior FILING DATE: 2001-06-19</p> <p>Prior APPLICATION NUMBER: US 60/303,459</p> <p>Prior FILING DATE: 2001-07-09</p> <p>NUMBER OF SEQ ID NOS: 1740</p> <p>SOFTWARE: PatentIn Ver. 2.1</p>	<p>2.4%; Score 44.2; DB 10; Length 2142;</p> <p>Best Local Similarity 47.9%; Pred. No. 0.05;</p> <p>Matches 127; Conservative 0; Mismatches 138; Indels 0; Gaps 0;</p>
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	Query Match	2.4% ;	Score 44.2 ;	DB 10 ;	Length 2142 ;
	Best Local Similarity	47.9% ;	Pred. No. 0.05 ;		
	Matches 127 ;	Conservative 0 ;	Mismatches 138 ;	Indels 0 ;	Gaps 0
Qy	149 CACCAGACMAAGTAGAGCTGAGTAAAGAAAGTAAACGCTCATTTGCTGAGGCCAAGG				208
Db	551 CTCCTGCTTCAGAGAGATGAGATGAGGAAGATGATGATGATGAAGATGATGATGATG				610
Qy	209 AGAAATTGCAGAAGAAAGTGTGGCACTGATGAAAGAGAGACAGCCAGTCTTCAGAAAG				268
Db	611 ATGAAGAGAGAGAGAGGAAGTACCTTGAGAGAAAGTTTGTGAGATCACACCAAGCA				670
Qy	269 ATGGCATGCAGAGTGCACGACCCAGGACGCCCAAGAGAGCCCTGTGAGAGTGTGACC				328
Db	671 AAGGAAGAAAACTCTTCALAAAGTTGTTCTGTGAAGCCAAAGATGTGGCCGAGAGAG				730
Qy	329 CAGAGATGACACAGACGTTGATGATGATGAGCTGTGAGTACGACTTAGATTAATATG				388
Db	731 AGGAAGATGATGAGGATGATGAAGATGAAGAGAGAGATGAAGATGAAGATGAAGAGG				790
Qy	389 ATGAGAGAGTGACCCAGATGCTGA				413
Db	791 ACGATGAAGATGAGGATGAGAGA				815

RESULT 11
US-09-770-445-502
Sequence 502 Application US/09770445
Patent No. US2002023281A1
GENERAL INFORMATION:
APPLICANT: Gorlach, Jorn
APPLICANT: An, Yong-Qiang
APPLICANT: Hamilton, Carol M.
APPLICANT: Price, Jennifer L.
APPLICANT: Raines, Tracy M.
APPLICANT: Yu, Yang
APPLICANT: Rameeka, Joshua G.
APPLICANT: Page, Amy
APPLICANT: Matthew, Abraham V.
APPLICANT: Iedford, Brooke L.
APPLICANT: Woessner, Jeffrey P.
APPLICANT: Haas, William David
APPLICANT: Garcia, Carlos A.
APPLICANT: Kricker, Maja
APPLICANT: Slader, Ted
APPLICANT: Davis, Keith R.
APPLICANT: Allen, Keith
APPLICANT: Hoffman, Neil
APPLICANT: Hurlburt, Patrick
TITLE OF INVENTION: Expressed Sequences of Arabidopsis

;; TITLE OF INVENTION: thaliana
;; FILE REFERENCE: 2023US (PARA-012PRV)
;; CURRENT APPLICATION NUMBER: US/09/770,445
;; CURRENT FILING DATE: 2001-01-26
;; PRIOR APPLICATION NUMBER: US 60/178,472
;; PRIOR FILING DATE: 2000-01-27
;; NUMBER OF SEQ ID NOS: 999
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 502
;; LENGTH: 888
;; TYPE: DNA
;; ORGANISM: Arabidopsis thaliana
;; FEATURE:
;; NAME/KEY: misc.feature
;; LOCATION: (1)...(888)
;; OTHER INFORMATION: n = A,T,C or G
US-09-770-445-502

Query Match 2.4%; Score 43.8; DB 10; Length 888;
Best Local Similarity 46.8%; Pred. No. 0.037;
Matches 138; Conservative 0; Mismatches 157; Indels 0; Gaps 0;

QY 131 GCGGCGTGGCCAAAGACACCCAGACAGGTAGAGCTGAGTAAAGAAAGTAAACGCC 130
DB 35 GCGACGACATAGTGTGAAGAAAGTTAAAGACGTAAGTAAAGTAAAGCGAGAG 94
QY 191 TCATTGCTGAGCAAGAGAAATTCAGAGAGAGTGTGGCAGTATGAGAGAGAGA 250
DB 95 ACCATATATGATGAGATGAGAGAGATGATGATGATGAGAGAGAGAGAGAGAG 154
QY 251 CAGGACGTCCTTCAGAGAGTGCAGTGCAGCAGCAGCAGCAGCAGCAGCAGAGAGC 310
DB 155 ATGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 214
QY 311 CCTGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 370
DB 215 AAGATTAAGATGAAGAGGTGATGAGAGTGAACGATGATGATGATGATGATGATGAT 274
QY 371 AGCATTAAGTAAATATGATGAGAGAGTGAACCATGCTGAGACTCTTGATGA 425
DB 275 ATGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 329

RESULT 12
US-09-864-761-28059/C
; Sequence 28059, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME- DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30

;; PRIOR APPLICATION NUMBER: PCT/US01/00669
;; PRIOR FILING DATE: 2001-01-30
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;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 28059
;; LENGTH: 327
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AC005668.1
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.55
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1
US-09-864-761-28059

Query Match 2.4%; Score 43.6; DB 10; Length 327;
Best Local Similarity 47.2%; Pred. No. 0.023;
Matches 133; Conservative 0; Mismatches 149; Indels 0; Gaps 0;

QY 321 TGGTACCCAGAGATGACAGAGCGCTTGATGATGATGATGATGATGATGATGATGAT 380
DB 306 TGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 247
QY 381 TAAATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 440
DB 246 CAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 187
QY 441 TACGCTCTACGGAGTAAGATCAAGATCCTTAAGTATGATGATGATGATGATGATGAT 500
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RESULT 13
US-09-864-761-20733
; Sequence 20733, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME- DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1

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CURRENT APPLICATION NUMBER: US/09/864,761
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
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PRIOR APPLICATION NUMBER: PCT/US01/00662
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PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 20733
LENGTH: 575
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC005822.1
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 13
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 13
OTHER INFORMATION: EXPRESSED IN B47474, SIGNAL = 11
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 11
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 14
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 9.8
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 12
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 9.4
OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 11
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 12
OTHER INFORMATION: NT HT: AF185255.1, EVALUATE 4.80e+00
OTHER INFORMATION: EST_HUMAN HIT: BE071749.1, EVALUATE 5.80e+00
US-09-864-761-20733

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					Gaps	0
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Db	281	AGAGAGAGAGAGAGAGAAAGAA	340			
Qy	213	ATTGCAAGAAAGAGGTGTGGCAGTGATGAAGAGAGACAGCAGTCTTCACAGAAATGG	272			
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Db	341	GAAAGAAAGAGAGAGAGAGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAA	400			
Qy	273	CATGCAGATGCACAGCACCCAGGACGCCCCAAAGAGAGCCCTTGAGAGATGTGTACCCAGA	332			

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RESULT 14
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; Sequence 3972, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecmica-X-1
; FILE REFERENCE: GENE EXPRESSION ANALYSIS BY MICROARRAY
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/532,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
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; PRIOR APPLICATION NUMBER: PCT/US01/00668
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; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
; SEQ ID NO 3972
; LENGTH: 1969
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC005822.1 SIGNAL = 13
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 13
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 13
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 11

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OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 11
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 14
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 9.8
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 12
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 9.4
 OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 11
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 12
 US-09-864-761-3972

Query Match 2.4%; Score 43.6; DB 10; Length 1969;
 Best Local Similarity 47.7%; Pred. No. 0.07; Mismatches 139; Indels 0; Gaps 0;
 Matches 127; Conservative 0; Mismatches 139; Indels 0; Gaps 0;

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 DB 623 AG 682
 QY 213 ATTGCAAGAAAGAGTGTGCTGCTGATGAAGAGAGACAGCAGTCTTCAGAGATGG 272
 DB 683 GAAGGAAG 742
 QY 273 CATGCAAGTGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 332
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 QY 393 GGAAGGTGACCCAGATGCTGAGACTC 418
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RESULT 15
 US-10-101-487-74
 Sequence 74, Application US/10101487
 Patent No. US20020169125A1
 GENERAL INFORMATION:
 APPLICANT: LEUNG, DAVID W.
 APPLICANT: BERGMAN, PHILIP A.
 APPLICANT: LOFOUIST, ALAN
 APPLICANT: PIETZ, GREGORY E.
 APPLICANT: TOMPKINS, CHRISTOPHER K.
 APPLICANT: MAGGONER JR., DAVID W.
 TITLE OF INVENTION: RECOMBINANT PRODUCTION OF POLYANIONIC POLYMERS AND USES
 FILE REFERENCE: 077319/0329
 CURRENT APPLICATION NUMBER: US/10/101,487
 CURRENT FILING DATE: 2002-03-20
 PRIOR APPLICATION NUMBER: 60/277,705
 PRIOR FILING DATE: 2001-03-21
 NUMBER OF SEQ ID NOS: 116
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 74
 LENGTH: 720
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 OTHER INFORMATION: oligonucleotide
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (2)..(718)
 US-10-101-487-74

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 Best Local Similarity 47.9%; Pred. No. 0.042;
 Matches 125; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

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 QY 394 GAAGGTGACCCAGATGCTGAG 414
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Search completed: March 19, 2003, 21:24:48
 Job time : 474 secs

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 18, 2003, 19:18:24 ; Search time 60901 Seconds
(without alignments)
885.494 Million cell updates/sec

Title: US-09-315-355a-47

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Gapop 10.0, Gapext 1.0

Searched: 2054640 segs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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40: em_hcgo_mus.*
41: em_hcgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	1152.4	62.2	1828	10	BC003199	BC003199 Mus muscu
5	986.6	53.2	16464	2	AC098211	AC098211 Rattus no
6	784.8	42.4	807	9	BC000067	BC000067 Homo sapi
7	373.4	20.2	121700	9	AC007622	AC007622 Homo sapi
8	373.4	20.2	334597	2	AC010187	AC010187 Homo sapi
9	337.6	18.2	400	9	HSXS153	HSXS153 Rattus no
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17	132	7.1	229961	2	AC112739	AC112739 Rattus no
18	129.2	7.0	192874	3	CBRG45E19	CBRG45E19 Macaca fa
19	124	6.7	40893	3	AB049913	AB049913 Caenorhab
20	118.2	6.4	1699	9	CEJCR8	CEJCR8 Caenorhab
21	118	6.4	39553	3	AY075465	AY075465 Drosophi
22	108.8	5.9	55227	3	AC005437	AC005437 Drosophi
23	108.8	5.9	140940	3	AC008260	AC008260 Drosophi
24	108.8	5.9	257909	3	AE003828	AE003828 Drosophi
25	108.6	5.9	330724	2	CEY67H2	CEY67H2 Caenorhab
26	108.6	5.8	1516	8	AY113942	AY113942 Arabidops
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VERSION	L07758.1	GI:177764			
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SOURCE					
ORGANISM					
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	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
REFERENCE					
AUTHORS	1 (Baes 1 to 1853)				
TITLE	Honore, B., Lefiers, H., Madsen, P. and Celis, J.E.				
	Cloning of a cDNA encoding a novel human nuclear phosphoprotein				
	belonging to the WD-40 family				

JOURNAL Gene 151 (1-2), 291-296 (1994)
MEDLINE 95129878
PUBMED 7828893
FEATURES
Source

Location/Qualifiers

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/tissue="liver"
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/product="IEF SSP 9502"
/protein_id="AA65201.1"
/db_xref="GI:17765"

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OCNIEVYNOEDSEFVHHDILISAPLESEWNPDPSPDSTGNYIAVGNTPVIE
WMDLIDVLSLEPVFTLGSKLKSKKKKKSSSSEGHDAVLDSMKLIRNVLAS
ADNTVILMDSLKGPAASLAVHDVDTQVTFQHPPEAOTLSGSYKSLVYDRSPDE
SHRMRFSGQIERVTYMHFSPCHFLASTDDGPNVNDARSDDKIFLTNANDETSGID
LSSQIKGLVTASADKYKIMDLIGDRPSLVHSRDMGVLPFSSCCPDLPFLYAFGG
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polya_signal

1817..1822

BASE COUNT 528 a 368 c 461 g 496 t

Query Match

Best Local Similarity 100.0%; Score 1853; DB 9; Length 1853;
Matches 1853; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	961	GCAGCTAGCCTGGCTGTACACACAGCAAGGCTCCAAACACTGCAGTTTATCTCATTTGAA	1020
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Db	1030	GCACAGACTGTGATTTCTGGCTCATATGATTAAGTCAGTGGCTTTGATGACAGCCAACT	1089
Qy	1081	CCAGATGAAGCATCGAATGTGGGATTCAGTGGCGAATGAGAGACTGACTTGAAT	1140
Db	1090	CCAGATGAAGCATCGAATGTGGGATTCAGTGGCGAATGAGAGACTGACTTGAAT	1149
Qy	1141	CACTTTTCACCTTGTTCATTTCTTGGCCAGTACAGATGACGGCTTGTATATATTTGGAT	1200
Db	1150	CACTTTTCACCTTGTTCATTTCTTGGCCAGTACAGATGACGGCTTGTATATATTTGGAT	1209
Qy	1201	GCAGGTCAGATTAAGCCAAATTTTACCTTAATGCAACAATGATGAATCTGTGCTT	1260
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Qy	1261	GATCTTAGCACTCAATATCAAGGGCTGTCTGTGACTGCTTACAGTGAACAAATACGTGAAG	1320
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Qy	1321	ATCTGGACATCTTAGAGATAGGCCCAAGTCTAGTTCATTTCTAGGGAACATGAAAATGGGA	1380
Db	1330	ATCTGGACATCTTAGAGATAGGCCCAAGTCTAGTTCATTTCTAGGGAACATGAAAATGGGA	1389
Qy	1381	GTTCTCTTCTGTTCTTATGATGTGGCCGATTTGGCATTTATTTATGCTTTGGAGGTCAA	1440
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Qy	1441	AAAGAAAGGCTTGGGGTCTGGGATATAAGCAAGTCTTTCAGTAAATGAAGCATTTGGA	1500
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Qy	1501	AGACGAGAGAGGCTGTGTTCTTGGGAGTGCAGAAATTCATCTATTAAGTGGCCCTTTTGGC	1560
Db	1510	AGACGAGAGAGGCTGTGTTCTTGGGAGTGCAGAAATTCATCTATTAAGTGGCCCTTTTGGC	1569
Qy	1561	AGCAGAGCTCAGATACCCCATGGAAGTCTTAAATGAAGATCATCTAATTTCTGCTTACC	1620
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Qy	1621	TTAATCTGGGAATTTTAAAAAGTTGGCTTAAAAATGTTCCATGCTGGCGACAAACATGCA	1680
Db	1630	TTAATCTGGGAATTTTAAAAAGTTGGCTTAAAAATGTTCCATGCTGGCGACAAACATGCA	1689
Qy	1681	GAGTGACTGAACACAAATTCATTTCTGACTGACATTCCTTTCTGCAACATCGCGGTGGACCC	1740
Db	1690	GAGTGACTGAACACAAATTCATTTCTGACTGACATTCCTTTCTGCAACATCGCGGTGGACCC	1749
Qy	1741	ACAATATTCGGGCTTTGTGCTTGTGCTTCTTCAATGATGATGATTTGTAAGGCTCTTGTGGA	1800
Db	1750	ACAATATTCGGGCTTTGTGCTTGTGCTTCTTCAATGATGATGATTTGTAAGGCTCTTGTGGA	1809
Qy	1801	TTTCTTAAAAAAGATTAATAAAAAGATTTTAAAAAAGTAA	1841
Db	1810	TTTCTTAAAAAAGATTAATAAAAAGATTTTAAAAAAGTAA	1850

RESULT	3
BC023137	
LOCUS	BC023137
DEFINITION	BC023137 2388 bp mRNA linear ROD 07-AUG-2002
ACCESSION	Mus musculus, RIKEN cDNA 2310058A11 gene, clone MGC:28175
VERSION	IMAGE:3966908, mRNA, complete cds.
KEYWORDS	BC023137 GI:18605706
SOURCE	MGC.
ORGANISM	house mouse. Mus musculus Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE	AUTHORS	TITLE	JOURNAL	REMARK	COMMENT
1 (bases 1 to 2388)	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
	Strausberg, R.	Direct Submission			
	Submitted (04-FEB-2002)	National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA			
	NIH-MGC Project URL: http://mgc.nci.nih.gov	Contact: MGC help desk			
	Email: cgsabbs-remail.nih.gov	Tissue Procurement: Lochar Hennighausen Ph.D., Robin Humphreys			
	cDNA Library Preparation: Life Technologies, Inc.	cDNA Library Arrayed by: The I.M.A.G.E Consortium (LLNL)			
	DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center				
	Center code: BCM-HGSC	Web site: http://www.hgsc.bcm.tmc.edu/cdna/			
	Contact: amg@bcm.tmc.edu	Gunatne, P.H., Garcia, A.M., Lu, X., Huiyk, S.W., Hale, S.M., Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.G., Muzny, D.M., Richards, S., Gbabe, R.A.			
	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov	Series: IRAK Project: 36 Row: G Column: 9			
	This clone was selected for full length sequencing because it passed the following selection criteria: Similarity but not identity to protein.	Location/Qualifiers			
	1. .2388				

CDS

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	Query Match	62.2%	Score 1153.2	DB 10	Length 2388
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	Matches 1357	Conservative 0	Mismatches 258	Indels 9	Gaps 4
QY	39 TCCTTAGCAGCCTGTTCTAGCGTGACAGCCCTTGACTTGAAGACCATGAACCGAG				98
Db	14 TCTCCACAGCTCCAGAGGGCTCCACCTGGCCGGGTTCAAACCGAAGATCATGAACCGAG				73
QY	99 CCGCGAGGTGACCGTGGCTGCGCTGGGTCCGTCGGCGCGTGGCCAAAGACACCAACAA				158
Db	74 CCGCGAAGTGACCGTGGCTGGGTCCGCGCGCGTGGCCAAAGAGACTCCAGACA				133
QY	159 GGTGAGCTGAGTAAAGAGAGTAAACGCTCATTTGAGAGCAAAAGAGAAATTGCA				218
Db	134 GGTGAGCTGAGTAAAGAGAGTAAACGCTCATATGCTGAAGCAAAAGAGAAATTGCA				193

Qy	219	AGAAAGAGTGTGTGGCGATGATGAAGAGGAGCAGGCACTGCTTCAAGAAATGGCATGCA	278
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Qy	339	CAGGACGCTTGATGATGATGATGAGCTGGCTGAGTACGACTTAAATGATGATGAAGAG	398
Db	311	CCGACACTGGACGATGACGATGACGCTGGCGGGGTACGACTTAAATTAATGAGAGAGAGA	370
Qy	399	TGACCCAGATGCTGAGACCTCTTGATGATCTCTTGGGCTCTTACGGTCTACGGAGTAA	458
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Qy	459	TGATCAAGATCTCTTACGTTACTCTGAAAGATACAGAACATATGAACGTAGATTTCTT	518
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Qy	519	GATTAAACCAAGATGATATATCTTAAATGTTTGGCCGAGCGAAGACGAGACCAATGCAATTT	578
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Qy	819	GAAAGGAAAGAGAGTCTCTAGAGAGAGGCAATACGATGCTGCTTGAACCTTTCAAG	878
Db	791	GAAAGGAAAGAGAGTCTCTAGAGAGAGGCAATACGATGCTGCTTGAACCTTTCAAG	850
Qy	879	GAATAGACTATCGAATATGTTTTCAGAGTGCATCACTGACCAACACTGTATATCTGTG	938
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Db	911	GGATCTGCTGTGGGGGAAAGTCAGAGGACAGCTTACGCAACATACAGAACAGGTTGAGC	970
Qy	999	ACTGAGTTTCATCCATTTTGAAGACAGACTGATTTTGGCTCATATGATTAAGTCACT	1058
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Qy	1059	GACTTTGTATGACTGCGGAGAGTCCAGATGAAAGCCATGATGTGGCGATTCAGTGGGCA	1118
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Qy	1119	GATGAGAGAGTGCATTTGGAATCACTTTTCACTGTGCACTTTCTTGGCCAGTACAGATGA	1178
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Qy	1419	TATTTATGCTCTTTGGAGGTCAAAAAGAAAGGCTTCGGGTCTGGGATATATACCAACAGTTC	1478
Db	1391	TGTTATATCCCTTTGGAGGACGAAAAGAGGCTTCGGGTTTGGGACATATACCACTGTGTG	1450
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Qy	1655	GTTTC	1658
Db	1629	GTTCC	1632

LOCUS BC003199 1828 bp mRNA linear ROD 07-AUG-2002
DEFINITION Mus musculus, RIKEN cDNA 2310058a11 gene, clone MGC:6406
IMAGE:3586496, mRNA, complete cds.
ACCESSION BC003199
VERSION BC003199.1 GI:13096811
KEYWORDS MGC.
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE
AUTHORS
TITLE
JOURNAL
1 (bases 1 to 1828)
Strausberg, R.
Direct Submission
Submitted (20-FEB-2001) National Institutes of Health, Mammalian

REMARK	COMMENT
NIH-MGC Project URL: http://mgc.nci.nih.gov	Contact: MGC help desk

Email: cgabbs-1@mail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNI)
DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center
Center code: BCM-HGSC
Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>
Contact: amc@bcm.tmc.edu
Günaratne, P.H., García, A.M., Lu, X., Huijck, S.W., Hale, S.M., Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.G., Muzny, D.M., Richards, S., Gibbs, R.A.

Clone distribution: MCC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>
Series: JRAK Plate: 10 Row: e Column: e
This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Genomescan gene prediction, similarity but not identity to protein.

FEATURES

Location/Qualifiers

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source 1. .1828
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BASE COUNT      504 a      414 c      476 g      434 t
ORIGIN
Query Match      62.2%; Score 1152.4; DB 10; Length 1826;
Best Local Similarity 82.7%; Pred. No. 2e-102;
Matches 1367; Conservative 0; Mismatches 276; Indels 9; Gaps 4;

QY 11 CGTGTGCAGAGTCGGTCTGTCTCCCTCCCTATGACGCTGTTTACCGTGACAGC 70
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QY 71 CCCTTGACTGAGGACCATGACCGCAGCGCCAGGTGACGCGGCTGGGCTGGCTCCCT 130
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QY 191 TCATTGCTGAGGCAAGAGAAATTGCAAGAAAGGTGTGCGAGTATGAAGAGAGA 250
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RESULT 5
AC098211/c

LOCUS AC098211 164664 bp DNA linear HTG 12-JUL-2002
DEFINITION Rattus norvegicus clone CH230-208L16, *** SEQUENCING IN PROGRESS
ACCESSION AC098211
VERSION AC098211.3 GI:21729861
KEYWORDS HTG; HTGS_PHASet1.
SOURCE Norway rat.
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus;
Rattus.
1 (bases 1 to 164664)
Muzny,D.M., Adams,C., Adio-Ochola,B., Ali-osman,F.R., Allen,C.,
Albrooks,S.L., Amaralunge,H.C., Are,J.R., Ayele,M., Banks,T.,
Barbata,J., Benton,J., Bimange,K., Blankenburg,K., Bonini,D.,
Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P.,
Buhay,C., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C.,
Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D.,
Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C.,
Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R.,
Davila,M.R., Davis,C., Davy-Carroll,L., Dederich,D.A.,
Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H.,
Doutwaite,K.J., Draper,H., Dugan-Rocha,S., Durdin,K.J.,
Earhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escoto,M.,
Falls,T., Ferraguto,D., Flagg,N., Ford,T., Foster,P., Frantz,P.,
Gabriel,A., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R.,
Gorell,J.H., Guevara,W., Gunaratne,P., Hale,S., Hamilton,K.,
Harris,C., Harris,K., Hart,M., Haylak,P., Hawes,A., Hernandez,J.,
Hernandez,O., Hodgson,A., Hognes,M., Holloway,C., Hollins,B.,
Hornel,F., Howard,S., Huber,J., Huiyk,S., Hume,J., Jackson,L.E.,
Jacobson,B., Jia,Y., Johnson,R., Jolivet,S., Joudah,S.,
Karlsen,E., Kelly,S., Khan,U., King,L., Korvan,J., Kovar,C.,
Kritovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L.,
Li,J., Li,Z., Lichtarge,O., Lien,C., Liu,J., Liu,R., Lu,J.,
Lozdo,R.V., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J.,
Maheshwari,M., Mapua,P., Martin,R., Martindale,A., Metzger,B.,
Massey,E., Mawhiney,E., McLeod,M.P., Meador,M., Mei,G., Metzker,M.,
Miner,G., Miner,Z., Mitchell,T., Mohabbat,K., Morgan,N., Morris,S.,
Mozer,M., Neal,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N.,
Nguyen,N., Nickerson,E., Nwokenkwo,S., Ogun,M., Okunnu,G.,
Oragunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L.,
Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y.,
Rivers,M., Rojas,A., Rojokokan,I., Rolfe,M., Ruiz,S., Savery,G.,
Scherer,S., Scott,G., Shen,H., Shooshtari,N., Sisson,I.,
Sodergren,E., Sonaike,T., Sparks,A., Stanley,H., Stone,H.,
Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H.,
Tansley,J., Taylor,C., Taylor,T., Telford,B., Thomas,N., Thomas,S.,
Umanil,K., Vaequez,L., Vera,V., Villalón,D., Vinson,R., Wang,Q.,
Wang,S., Ward-Moore,S., Warren,R., Washington,C., Watlington,S.,
Williams,G., Williamson,A., Wlaczek,R., Wooden,S., Worley,K.,
Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,
Weinstock,G., and Gibbs,R.
TITLE Direct Submission
JOURNAL Unpublished
AUTHORS 2 (bases 1 to 164664)
REFERENCE Worley,K.C.
TITLE Direct Submission
JOURNAL Submitted (23-OCT-2001) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 164664)
REFERENCE Worley,K.C.
TITLE Direct Submission
JOURNAL Submitted (12-JUL-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
COMMENT On Jul 11, 2002 this sequence version replaced gi:17973812.
----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-help@bcm.tmc.edu
----- Project Information

Center project name: GIMR
Center clone name: CH230-208L16
----- Summary Statistics
Sequencing Vector: Plasmid:
Chemistry: Dye-terminator Big Dye: 100% of reads
Assembly program: Phrap; Version 0.990329
Consensus quality: 106583 bases at least Q40
Consensus quality: 113107 bases at least Q30
Consensus quality: 118472 bases at least Q20

* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 69 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
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* 1 1313: contig of 1313 bp in length
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* 1414 2511: contig of 1098 bp in length
* 2512 2611: gap of unknown length
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* 3847 3946: gap of unknown length
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* 7134 7234: gap of unknown length
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* 10946 11045: gap of unknown length
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* 12243 12342: gap of unknown length
* 12343 13881: contig of 1539 bp in length
* 13882 13981: gap of unknown length
* 13982 15230: contig of 1249 bp in length
* 15231 15330: gap of unknown length
* 15331 16364: contig of 1034 bp in length
* 16365 16464: gap of unknown length
* 16465 18075: contig of 1611 bp in length
* 18076 18175: gap of unknown length
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* 24260 24359: gap of unknown length
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* 98207 98306: gap of unknown length
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Best Local Similarity 79.8%; Pred. No. 5.3e-257;
Matches 1257; Conservative 0; Mismatches 269; Indels 49; Gaps 6;

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Qy 441 TACGTTACGGGAGATGATGATCAAGATCCTTACGTTACTTGAAGATACAGAAACATA 500
Db 156999 TACTGTATAGGAGATGATGATGAGGTCATAGGCTTCATGACCACTGAAGACAGAAACGTA 156940
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RESULT 6
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 VERSION BC000067.1 GI:13937531
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 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 807)
 AUTHORS Strausberg,R.
 TITLE Direct Submission
 JOURNAL Submitted (03-NOV-2000) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA

REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
 COMMENT Contact: MGC help desk
 Email: cgabs-remail.nih.gov
 Tissue Procurement: ATCC

CDNA Library Preparation: Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Institute for Systems Biology
 http://www.systemsbio.org
 contact: amadan@systemsbiology.org
 Anup Madan, Rachel Dickhoff, Jessica Fahy, Stephanie Ford, Julia
 Greene, Mark Kettelman and Anuradha Madan

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov
 Series: IRAL Plate: 7 Row: f Column: 7
 This clone was selected for full length sequencing because it
 passed the following selection criteria: matched mRNA gi: 5902033.
 Location/Qualifiers

FEATURES
 source 1..807

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 /issue_type="Placenta, choriocarcinoma"
 /clone_lib="NIH MGC 21"
 /lab_host="DH10B-R"
 /note="Vector: pOTB7"

BASE COUNT 249 a 159 c 214 g 185 t

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 Best Local Similarity 99.1%; Pred. No. 2.3e-202;

Matches 789; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 QY 37 CTCCCTATGACAGCTGGTTTCTAGCGTGAACAGCCCTTGACTTGAAGACCATGAACCCG 96
 Db 10 CTTCCCTATGACAGCTGGTTTCTAGCGTGAACAGCCCTTGACTTGAAGACCATGAACCCG 69
 QY 97 AGCCGCAAGTGAACGTCGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 156
 Db 70 AGCCGCAAGTGAACGTCGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGG 129
 QY 157 AAGTGAAGCTGATTAAGAAAGTAAAGGCTTATGCTGAGGCAAGGAAATTTG 216
 Db 130 AAGTGAAGCTGATTAAGAAAGTAAAGGCTTATGCTGAGGCAAGGAAATTTG 189
 QY 217 CAAGAAGAAAGTGGTGGCAAGTGAAGAGAGACAGGAGCTCTCAGAGAGTGCATG 276
 Db 190 CAAGAAGAAAGTGGTGGCAAGTGAAGAGAGACAGGAGCTCTCAGAGAGTGCATG 249
 QY 277 CAGAGTGACGACACCCAGGACGCCCAAGAGAGCCCTGGAGAGTGTGAACCCAGAGAT 336
 Db 250 CAGAGTGACGACACCCAGGACGCCCAAGAGAGCCCTGGAGAGTGTGAACCCAGAGAT 309
 QY 337 GACAGAGCGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 336
 Db 310 GACAGAGCGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 369
 QY 397 GGTGACCCAGATGCTGAGACTCTTGGTGAATCTCTTGGGCTTTCGGTCTACGGAGAT 456
 Db 370 GGTGACCCAGATGCTGAGACTCTTGGTGAATCTCTTGGGCTTTCGGTCTACGGAGAT 429
 QY 457 AATGATCAAGATCCTTACCTTACCTGAAAGATACAGAAATATGAACGTGAAGATTTTC 516
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 QY 577 TTAGAGGTGATGATTTATATATCAAGAAAGACTCTTTTATATACCAATGATATATCTC 636
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 QY 637 TTGTGCAATATCCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 696
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 VERSION AC007622.28 GI:11067200
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 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 121700)
 AUTHORS Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,

Alsbrooke, S. L., Amaralunga, H. C., Are, J. R., Banks, T., Barbara, J., Benton, J., Bivaga, K., Blankenburg, K., Bonini, D., Bouck, J., Bowie, S., Bivaga, M., Brown, E., Brown, M., Bryant, N. P., Buhay, C., Burch, P., Burkett, C., Burrell, K. L., Byrd, N. C., Caron, T. F., Carter, M., Cavazos, S. R., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, C., Chiu, D., Chowdhry, I., Christopoulos, C., Cleveland, C. D., Cox, C., Coyle, M. D., Dathorne, S. R., David, R., Davila, M. J., Davis, C., Davy-Carroll, L., Dederich, D. A., Delaney, K. R., Delgado, O., Dunn, A. L., Ding, Y., Dinh, H. H., Douthwaite, K. J., Draper, H., Dugan-Rocha, S., Durbin, K. J., Barnhart, C., Edgar, D., Edwards, C. C., Elms, C., Emerling, S., Escoto, M., Falls, T., Ferraguto, D., Flagg, N., Ford, J., Foster, P., Francis, P., Gabisi, A., Gao, J., Garcia, A., Garner, T., Garza, N., Gill, R., Goirel, J. H., Guevara, W., Guarnarone, P., Hale, S., Hamilton, K., Han, J., Harris, C., Harris, K., Hart, M., Havlak, P., Hawes, A., Hernandez, J., Hernandez, O., Hodgson, A., Hogues, M., Holloway, C., Hollins, B., Homs, F., Howard, S., Huber, J., Hulyk, S., Hume, J., Ischikawa, I., Jackson, L. E., Jacobson, B., Jia, Y., Johnson, R., Joliver, S., Joudah, S., Karlsson, E., Kelly, S., Khan, U., King, L., Korvan, J., Kovar, C., Kratochvic, J., Kureshi, A., Landry, N., Leal, B., Lee, E., Lewis, L. C., Lewis, L., Li, J., Li, Z., Lichtarge, O., Lieu, C., Liu, J., Liu, W., Louised, H., Lozano, R. J., Lu, X., Lucier, A., Lucier, R., Luna, R., Ma, J., Maheshwari, M., Mapa, P., Marondel, I., Martin, R., Martindale, A., Martinez, E., Massey, E., Mawhinney, E., McLeod, M. P., Meador, M., Mei, G., Merscher, S., Metzger, M., Miller, A., Miner, G., Miner, Z., Mitchell, T., Mohabac, K., Montgomery, K. T., Morgan, N., Morris, S., Moser, M., Neal, D., Nelson, D., Newton, J., Newton, M., Nguyen, A., Nguyen, N., Nguyen, N., Nickerson, E., Nockenkwo, S., Ogun, M., Okunolu, G., Otagunye, N., Oviedo, R., Pace, A., Payton, B., Peery, J., Perez, L., Peters, L., Pickens, R., Primus, E., P. L. B. Q. Quiles, M., Ren, Y., Rivers, M., Rojas, A., Rojibokan, I., Rolfe, M., Ritz, S., Savary, G., Scherer, S., Scott, G., Shen, H., Shih, C., Siohastari, N., Sisson, I., Sodergren, E., Sonaike, T., Sparks, A., Stanley, H., Stone, H., Sutton, A., Svatek, A., Taber, P., Tamerisa, A., Tamerisa, K., Tang, H., Taney, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S., Usmani, K., Vaequez, L., Vera, V., Villalon, D., Vinsom, R., Wall, R., Wang, S., Ward-Moore, S., Warren, R., Washington, C., Watlington, S., Williams, C., Williamson, A., Wleczek, R., Wooden, S., Worley, K., Wu, C., Wu, Y., Wu, Y. F., Zhou, J., Zorilla, S., Kuchelapatti, R. and Gibbs, R.

Direct Submission
Unpublished
2 (bases 1 to 121700)
Worley, K. C.
Direct Submission
Submitted (21-MAY-1999) Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 121700)
Worley, K. C.
Direct Submission
Submitted (01-NOV-2000) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On Nov 1, 2000 this sequence version replaced gi:11038616.
INFORMATION: <http://www.hgsc.bcm.tmc.edu/> or email gc-help@bcm.tmc.edu

CLONE LENGTH: This sequence does not necessarily represent the entire insert of this clone. Overlapping regions of clones are only sequenced and submitted once, so the sequence for the remainder of the insert may be found in the record for the adjacent clones. Overlapping clones are noted at the beginning and end of the Features listing.

ANNOTATION OF FEATURES:

STSs are identified using ePCR (Genome Res. 7:541-550) searches of a local database that includes entries from dbSTS, GDB, and local mapping efforts.

Repeats are identified using RepeatMasker (A. Smit and P. Green, unpublished) for human and mouse sequences.

Genes and Region of sequence similarity are identified by BLAST (Nuc. Acids Res. 25:3369-3402) similarity (expect < 1e-24) to the EST and cDNA sequences. Genes demonstrate at least two exons

flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.

SEQUENCING READ COVERAGE: Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at URL: <http://gc.bcm.tmc.edu:8088/quality.info/genbank.annotation.html>.

QUALSTAT-REPORT-----

----- Summary Statistics -----
Contig length: 207416
Phrap values in estimate: 206947
Average error rate (BCM-Phrap estimate): 9.47342e-05
Fraction of Phrap values less than 40 : 0.0155888
Number of consensus changing edits: 31
Number of N's in consensus : 0

Position	Consensus changing edits	Edited Context
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22503	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
22523	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
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34021	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
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74766	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
94286	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
128065	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
169207	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
169208	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
169210	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
169214	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
169220	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
169276	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
191868	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
191870	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
198887	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
203149	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac
207416	ttttccatg(n)ngcttgaac	ttttccatg(a)ngcttgaac

----- Distribution of Quality < 40 Bases -----

#	Bases
1000	900
900	800
800	700
700	600
600	500

```

400
300
200
100
0
-----
5 10 15 20 25 30 35 40
Phrap Value Range

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Version: 1.01 gxf.

Location/Qualifiers

source

1.121700

/organism="Homo sapiens"

/db_xref="taxon:9606"

/chromosome="12"

/clone="RP11-864J10"

/complement(1087..1398)

/rpt_family="AluSx"

3261..3665

/rpt_family="MER61C"

complement(4390..4440)

/rpt_family="WIR"

4662..4839

/standard_name="11.126A/11.126B"

/db_xref="GDB:385913"

4692..4742

/rpt_family="(TG)n"

4764..4895

/rpt_family="L1MC4"

4901..5177

/rpt_family="AluJo"

5178..5214

/rpt_family="(CAAT)n"

5215..5453

/rpt_family="AluJo"

5483..6031

/rpt_family="L1MC4"

6032..6338

/rpt_family="AluSx"

6349..6445

Query Match 20.2%; Score 373.4; DB 9; Length 121700;

Best Local Similarity 99.7%; Pred. No. 5.2e-90;

Matches 374; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1479 TTCAGTAAATGAAGCAATTTGGAAGAGAGAGGCTTTCTTGGAGTGCAGAAATTC 1538

80178 TTATGTAATGAAGCAATTTGGAAGAGAGAGGCTTTCTTGGAGTGCAGAAATTC 80119

1539 ATCTATTAGAGGCCCTTTGGAGAGAGAGCTAGATACACCATGGAGCTTTAATGAAG 1598

80118 ATCTATTAGAGGCCCTTTGGAGAGAGAGCTAGATACACCATGGAGCTTTAATGAAG 80059

1599 ATCATCAATATTTCTGCTTCACTTGAAGATTTTAAAGTTGGCTTAAATGTTTC 1658

80058 ATCATCAATATTTCTGCTTCACTTGAAGATTTTAAAGTTGGCTTAAATGTTTC 79999

1659 CATGCTGGAGAGCAACATGAGTGAAGTGAACACAAATTCATTTCTGACTGACATTC 1718

79998 CATGCTGGAGAGCAACATGAGTGAAGTGAACACAAATTCATTTCTGACTGACATTC 79939

1719 TTTCTGCACTGGGTGGAGCCCAAAATATCCGCTTTTGTGCTTGTCTTCAATGAT 1778

79938 TTTCTGCACTGGGTGGAGCCCAAAATATCCGCTTTTGTGCTTGTCTTCAATGAT 79879

1779 GGTGTTGAAGGCTCTTGTTCATTTCTTAAAGATTAATAAGATTTTAAAG 1838

79878 GGTGTTGAAGGCTCTTGTTCATTTCTTAAAGATTAATAAGATTTTAAAG 79819

1839 TAATTCCTTAACAT 1853

Db 79818 TAATTCCTTAACAT 79804

RESULT 8

AC010187/c

LOCUS

DEFINITION

SEQUENCE, 40 unordered pieces.

AC010187

AC010187.14

GI:20279317

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

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HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

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HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

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HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

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HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

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HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

HTG, HTGS_PHASE1, HTGS_DRAFT.

QY 1839 TAATTCCTTAACAT 1853
|||||
Db 47782 TAATTCCTTAACAT 47768
|||||

RESULT 9
HSXS153
LOCUS HSXS153 400 bp mRNA linear FRI 10-APR-1997
DEFINITION H.sapiens (xsl153) mRNA, 400bp.
ACCESSION Z36805
VERSION Z36805.1 GI:533924
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 400)
AUTHORS Mueller-Pillaasch, F., Gress, T., Lehnach, H. and Adler, G.
TITLE Differential gene expression in pancreatic cancer. Use of an automated approach for the large scale isolation and characterization of cDNA clones containing differentially expressed sequences

JOURNAL Unpublished
REFERENCE 2 (bases 1 to 400)
AUTHORS Gress, T.
TITLE Direct Submission
JOURNAL Submitted (16-AUG-1994) Gress T., University of Ulm, Department of Internal Medicine I, Robert Koch Str.8, 89081 Ulm, Germany, 89081

REFERENCE 3 (bases 1 to 400)
AUTHORS Gress, T.M., Muller-Pillaasch, F., Geng, M., Zimmerhackl, F., Zehner, G., Fries, H., Buchler, M., Adler, G. and Lehnach, H.
TITLE A pancreatic cancer-specific expression profile
JOURNAL Oncogene 13 (8), 1819-1830 (1996)
MEDLINE 97050791
PubMed 8895530

FEATURES
source
Location/Qualifiers
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="xsl153"
/cell_line="PATU 8988s"
/cell_type="ductal adenocarcinoma"
/issue_type="pancreas"
/clone_lib="xs CDNA lib, pancreatic cancer cell line PATU 8988s"
/dev_stage="adult"
misc_feature
1..362
/product="56 kDa protein"
/note="95% homology to human 56 kDa protein, GenEMBL-locus gb_pr:hum56kdapr residues 419-797"
BASE COUNT 113 a 78 c 90 g 115 t 4 others
ORIGIN

Query Match 18.2%; Score 337.6; DB 9; Length 400;
Best Local Similarity 94.8%; Pired. No. 1.3e-80;
Matches 379; Conservative 0; Mismatches 18; Indels 3; Gaps 3;

QY 419 TTGGTAATCTCTTGGGCTTACGCTCTACGGAGTATGATCAAGATCCTTACTTA 478
|||||
Db 1 TTGGTAATCTCTTGGGCTTACGCTCTACGGAGTATGATCAAGATCCTTACTTA 60
|||||

QY 479 CTCGAAAGATACAGAACATATGAGAGTATCTTGGATTAGCCGAGTATATC 538
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Db 61 CTCGAAAGATACAGAACATATGAGAGTATCTTGGATTAGCCGAGTATATC 120
|||||

QY 539 TTATAGTTTGTGGCCGAGCTGAACAGAGCAGTGCATTTAGAGGTGCATGTTTATATC 598
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Db 121 TTATAGTTTGTGGCCGAGCTGAACAGAGCAGTGCATTTAGAGGTGCATGTTTATATC 180
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QY 599 AAGAAAGAGCTCTTTTATGATACCAATATATCTTGTCTGCTATTCCTTGAGTG 658
|||||
Db 181 AAGAAAGAGCTCTTTTATGATACCAATATATCTTGTCTGCTATTCCTTGAGTG 240
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QY 659 TGGATGCTGTAAT-TTGATCTAGCCGATGATTTACTGGAATTACATTGCTGTA 717
|||||
Db 241 TGGATGCTGTAATTTGATGATCTAGCCGATGATTTACTGGAATTACATTGCTGTA 300
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QY 718 GGAACAT-GACCCCTTTTGAAGTGGGACCTTGATATGTGACCTTTAGAGCC 776
|||||
Db 301 GGAACATGCCACCCCTTTTGAAGTGGGACCCGATATGTGACCTTTAGAGNC 360
|||||

QY 777 AGTCTCACACTC-GGAGTAACCTTCAAAAAGAGAA 815
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Db 361 AGTCTCACACTCGGAGATTTACTNCCAAACAGCAGAA 400
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RESULT 10
AC109397
LOCUS AC109397 112300 bp DNA linear HTG 13-JUL-2002
DEFINITION Rattus norvegicus clone CH230-261M6, *** SEQUENCING IN PROGRESS
ACCESSION AC109397
VERSION AC109397.3 GI:21465200
KEYWORDS HTG; HTGS PHASE1.
SOURCE Norway rat.
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE 1 (bases 1 to 112300)
AUTHORS Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C., Alsbrooks, S.L., Amaralunge, H.C., Aré, J.R., Ayele, M., Banks, T., Barbarella, J., Benton, J., Bimaga, K., Blankenburg, K., Bonini, D., Bouck, J., Bowler, S., Brileva, M., Brown, E., Brown, M., Bryant, N.P., Buha, C., Burch, P., Burkett, C., Burrell, K.L., Byrd, N.C., Carrion, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Z., Chowdhry, I., Christopoulos, C., Cleveland, C.D., Cox, C., Coyle, M.D., Dathorne, S.R., David, R., Davila, M.L., Davis, C., Davy-Carroll, L., Dederich, D.A., Delaney, K.R., Delgado, O., Denn, A.L., Ding, Y., Dinh, H.H., Douthwaite, K.J., Draper, H., Dugan-Rocha, S., Durbin, K.J., Earhart, C., Edgar, D., Edwards, C.C., Elhaj, C., Escotto, M., Falls, T., Ferraguto, D., Flagg, N., Ford, J., Foster, P., Frantz, P., Gabisi, A., Gao, J., Garcia, A., Garner, T., Garza, N., Gill, R., Gorell, J.H., Guevara, W., Gunaratne, P., Hale, S., Hamilton, K., Harris, C., Harris, K., Hart, M., Haylak, P., Hayes, A., Hernandez, J., Hernandez, O., Hodgson, A., Hognes, M., Holloway, C., Hollins, B., Homs, F., Howard, S., Huber, J., Huliy, S., Hune, J., Jackson, L.E., Jacobson, B., Jia, Y., Johnson, R., Jolyet, S., Joudah, S., Karlsson, E., Kelly, S., Khan, U., King, U., Kovach, J., Kovar, C., Kratochvic, J., Kureishi, A., Landry, N., Leal, B., Lewis, L.C., Lewis, L., Li, J., Li, Z., Lichtarge, O., Lieu, C., Liu, J., Liu, W., Loulsegad, H., Lozado, R.J., Lu, X., Lucier, A., Lucier, R., Luna, R., Ma, J., Maheshwari, M., Mapua, P., Martin, R., Martindale, A., Martinez, F., Massey, E., Maunhney, E., McLeod, M.P., Meador, M., Mei, G., Metzger, M., Miner, G., Miner, Z., Mitchell, T., Mohabbat, K., Morgan, M., Morris, S., Moser, M., Neal, D., Newton, J., Newton, N., Nguyen, A., Nguyen, S., Nguyen, N., Nickerson, E., Nwokenkwo, S., Oguh, M., Okunolu, G., Oragunye, N., Oviedo, R., Pace, A., Payton, B., Peery, J., Perez, L., Peters, L., Pickens, R., Prims, E., Pu, L.L., Quiles, M., Ren, Y., Rives, M., Rojts, A., Rojibokan, I., Rolfe, M., Ruiz, S., Savery, G., Scherer, S., Scott, G., Shen, H., Shooshari, N., Sisson, I., Sodergren, E., Sonalke, T., Sparks, A., Stanley, H., Stone, H., Sutton, A., Svatek, A., Taber, P., Tamerisa, A., Tamerisa, K., Tansey, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S., Uemani, K., Taylor, L., Vera, V., Villalón, D., Vinton, R., Wang, O., Wang, S., Ward-Moore, S., Warren, R., Washington, C., Watlington, S., Williams, G., Williamson, A., Wleczky, R., Wooden, S., Worley, K., Wu, C., Wu, Y., Wu, Y.F., Zhou, J., Zorrilla, S., Nelson, D., Weinstein, G., and Gibbs, R.
Direct Submission
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 112300)
AUTHORS Worley, K.C.
TITLE Direct Submission
JOURNAL Submitted (04-FEB-2002) Human Genome Sequencing Center, Department

REFERENCE
AUTHORS
TITLE
JOURNAL

COMMENT

of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 112300)

Worley, K.C.

Direct Submission

Submitted (13-JUL-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Jun 19, 2002 this sequence version replaced gi:18846849.

----- Genome Center

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: GPZA

Center clone name: CH230-261W6

----- Summary Statistics

Sequencing vector: Plasmid;

Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.990329

Consensus quality: 67877 bases at least Q40

Consensus quality: 7148 bases at least Q20

Consensus quality: 74468 bases at least Q20

* NOTE: Estimated insert size may differ from sequence length
* (see <http://www.hgsc.bcm.tmc.edu/docs/genbankdraftdata.html>).

* NOTE: This is a 'working draft' sequence. It currently

* consists of 52 contigs. The true order of the pieces

* is not known and their order in this sequence record is

* arbitrary. Gaps between the contigs are represented as

* runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence

* as soon as it is available and the accession number will

* be preserved.

* 1 1392: contig of 1392 bp in length

* 1393 1492: gap of unknown length

* 1493 2616: contig of 1124 bp in length

* 2617 2716: gap of unknown length

* 2717 4137: contig of 1421 bp in length

* 4138 4237: gap of unknown length

* 4238 5861: contig of 1624 bp in length

* 5862 5961: gap of unknown length

* 5962 7254: contig of 1293 bp in length

* 7255 7354: gap of unknown length

* 7355 8434: contig of 1080 bp in length

* 8435 8534: gap of unknown length

* 8535 9591: contig of 1057 bp in length

* 9592 9691: gap of unknown length

* 9692 10738: contig of 1047 bp in length

* 10739 10838: gap of unknown length

* 10839 11893: contig of 1055 bp in length

* 11894 11993: gap of unknown length

* 11994 13704: contig of 1711 bp in length

* 13705 13804: gap of unknown length

* 13805 15599: contig of 1795 bp in length

* 15600 15699: gap of unknown length

* 15700 16725: contig of 1026 bp in length

* 16726 16825: gap of unknown length

* 16826 18609: contig of 1784 bp in length

* 18610 18709: gap of unknown length

* 18710 19938: contig of 1229 bp in length

* 19939 20038: gap of unknown length

* 20039 21273: contig of 1235 bp in length

* 21274 21373: gap of unknown length

* 21374 23028: contig of 1655 bp in length

* 23029 23129: gap of unknown length

* 23129 24597: contig of 1469 bp in length

* 24598 24697: gap of unknown length

* 24698 27845: contig of 3148 bp in length

* 27846 27945: gap of unknown length

* 27946 29017: contig of 1072 bp in length

* 29018 29117: gap of unknown length

FEATURES

source

1. .112300
/organism="Rattus norvegicus"
/db_xref="taxon:10116"

Query Match 15.4%; Score 285; DB 2; Length 112300;
Best Local Similarity 77.6%; Pred. No. 6,1e-66;
Matches 384; Conservative 0; Mismatches 105; Indels 6; Gaps 3;

QY 1067 ATGACTGCCAAGTCCAGATGAAAGCCATGCAATGTGCGATTGCGGCGAGATGAGA 1126
 DB 40374 ATGACTGCAGTGAACATGCACCAAAATTAACCTCATGCACTTGCAGTGCGCAGATCAAA 40433
 QY 1127 GATGACTTGGATCACTTTTTCACCTTGTGATCTTCTTGGCCAGTACGATGAGCGCTTTG 1186
 DB 40434 AAGTGAACGGAACCATTTTCTCACCATGATCATATCTTGGCCAGTACGATGATGTTTGG 40493
 QY 1187 TATATAATTTGATGACGTTGAGATTAAGCCAAATTTTATCACTTAATGCAACAAATGATG 1246
 DB 40494 TATATATCTGATGATACGCTTTCAGAGAAAGTTGATTTTAACTTAATGCAACGACTATG 40553
 QY 1247 AAATCTCTGCTTGTGATCTTATGACGCAATCAAGGCGTGTCTGATGATGCTTCACTG 1306
 DB 40554 AAATGCTGTGCTTGTGATCTGAGCAGTATGATCAAAAGGCTGCTGTGACTG--TCCACAG 40611
 QY 1307 ACAAAATACGGAAGATGTGGGACATCTTAGAGATTAAGCCAAAGTCTGATTCATTCTAGGG 1366
 DB 40612 ACAATTTTGGAAAGATCTGGATATCTTAGAGAAAGCCAAAGTCTGATTCACACTTAGAG 40671
 QY 1367 ACATGAATATGGAGAGTCTCTTCTGCTTCATGTTGCGCCGATTTGSCATTTATTTATG 1426
 DB 40672 ACATTAATAATGAAGATCTCTT--TTCAATCAAGCTTCTGATTTGTCAATTTGTTATG 40728
 QY 1427 CCTTTGAGGTCAAAAAGAGGGCTTCGGTCTGGATATTAAGCACAGTCTCTTCACTAA 1486
 DB 40729 CCTTTGAGAGACAGAAAGAGGGCTTTGGTTGGGAT--TAAGACAGTCTCTTCACTAA 40787
 QY 1487 ATGAAGATTGGAGACGAGAGAGGCTTGTCTTGGGAGTCAAGAAATTCATCTATTA 1546
 DB 40788 ATGAAGATTGGAGACGAGAGAGTGTATTTGGCAACAGCATTTTGGGTAATTA 40847
 QY 1547 GTGGCCCTTTGGCA 1561
 DB 40848 GTGGCCCTTAAGCA 40862

RESULT 11
 LOCUS G06393 260 bp DNA linear STS 19-OCT-1995
 DEFINITION human STS WI-7102, sequence tagged site.
 ACCESSION G06393
 VERSION G06393.1 GI:859638
 KEYWORDS STS; STS sequence; primer; sequence tagged site.
 SOURCE Homo sapiens STS derived from sequences in dbEST and the Unigene collection.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 260)
 Hudson, T.
 Whitehead Institute/MIT Center for Genome Research, Physically Mapped ESTs
 Unpublished (1995)
 JOURNAL
 COMMENT
 Contact: Thomas Hudson
 Whitehead Institute/MIT Center for Genome Research
 Whitehead Institute for Biomedical Research
 9 Cambridge Center, Cambridge MA 02142 USA
 Tel: 617 252 1900
 Fax: 617 252 1902
 Email: thudson@genome.wi.mit.edu
 Primer A: ATTTCCTGCTTACCTTAACCTGAG
 Primer B: CTTTATTGAAGAAATGCAACAAGAGC
 STS size: 207
 PCR Profile:
 Presoak:
 Denaturation:
 Annealing: 56 degrees C
 Polymerization:
 PCR Cycles: 35

Thermal Cycler:
 Protocol:
 Template: 10 ng
 Primer: each 5 pm
 dNTPs: each 4 mM
 Taq Polymerase: 0.025 units/ul
 Total Vol: 20 ul
 Buffer:
 MgCl2: 1.5 mM
 KCl: 50 mM
 Tris-HCl: 10 mM
 pH: 9.3

Prepared with primer pairs derived from L07758 -- Unigene.
 FEATURES
 source
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 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /map="729 D 6; 744 G 5; 909 G 6; 925 G 1; 948 F 3; 959 A 1; 720 G 10; 786 F 12; 969 C 12"
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 14..36
 primer_bind
 primer_bind complement(196..220)
 BASE COUNT 79 a 49 c 48 g 84 t
 ORIGIN

Query Match 14.0%; Score 260; DB 11; Length 260;
 Best Local Similarity 100.0%; Pred. No. 1.7e-59;
 Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1594 TGAAGATCATCTAATTTCTGCTTACCTTACCTGGAATTTTAAAGTGGCTAA 1653
 DB 1 TGAAGATCATCTAATTTCTGCTTACCTTACCTGGAATTTTAAAGTGGCTAA 60
 QY 1654 TGTTCATGCGTGCGACGACCAACATGACAGTGAAGTGAACACAAATTCATTCTGACTGAC 1713
 DB 61 TGTTCATGCGTGCGACGACCAACATGACAGTGAAGTGAACACAAATTCATTCTGACTGAC 120
 QY 1714 ATTCCCTTTCTGCAACGCGGTGGGACACCAAAATCCGGCTTTGGCTTCTTCA 1773
 DB 121 ATTCCCTTTCTGCAACGCGGTGGGACACCAAAATCCGGCTTTGGCTTCTTCA 180
 QY 1774 TGGATGTTTGAAGGCTCTTGTGCAATTTCTTAAAGAGTAATTAAGATTTT 1833
 DB 181 TGGATGTTTGAAGGCTCTTGTGCAATTTCTTAAAGAGTAATTAAGATTTT 240
 QY 1834 AAAAGTAATTCCTTAAACAT 1853
 DB 241 AAAAGTAATTCCTTAAACAT 260

RESULT 12
 LOCUS HSXS152 250 bp mRNA linear PRI 10-APR-1997
 DEFINITION H.sapiens (xs152) mRNA, 250bp.
 ACCESSION Z36804
 VERSION Z36804.1 GI:533911
 KEYWORDS
 ORGANISM Homo sapiens
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 250)
 Mueller-Pillasch, F., Gress, T., Lehnach, H. and Adler, G.
 Differential gene expression in pancreatic cancer. Use of an automated approach for the large scale isolation and characterisation of cDNA clones containing differentially expressed sequences
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 250)
 AUTHORS Gress, T.
 TITLE Direct Submission

JOURNAL Submitted (16-AUG-1994) Gress T., University of Ulm, Department of Internal Medicine I, Robert Koch Str.8, 89081 Ulm, Germany, 89081

REFERENCE 3 (bases 1 to 250)

AUTHORS Gress,T.M., Muller-Pillasch F., Geng M., Zimmerhackl,F., Zehner,G., Friese,H., Buchler,M., Adler,G. and Lennrach,H.

TITLE A pancreatic cancer-specific expression profile

JOURNAL Oncogene 13 (8), 1819-1830 (1996)

MEDLINE 97050791

PUBMED 8895530

FEATURES

source Location/Qualifiers

1..250

/organism="Homo sapiens"

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/clone="xal52"

/cell_line="PATU 8988s"

/cell_type="ductal adenocarcinoma"

/tissue_type="pancreas"

/clone_id="xs cdna 11b, pancreatic cancer cell line PATU 8988s"

/dev_stage="adult"

misc_feature 1..250

/product="56 kDa protein"

/note="98% homology to human 56 kDa protein, GenBank-locus gb:U056kDapr residues 419-669"

BASE COUNT 70 a 45 c 56 g 75 t 4 others

ORIGIN

Query Match 13.1%; Score 242.8; DB 9; Length 250;

Best Local Similarity 97.6%; Pred. No. 8e-55; Indels 0; Gaps 0;

Matches 244; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 418 CTTGTGTAATCTCTTGGGCTTCTACGGCTTACGGAGTAATGATCAAGATCTTACGTT 477

Db 1 CTTGTGTAATCTCTTGGGCTTCTACGGCTTACGGAGTAATGATCAAGATCTTACGTT 60

QY 478 ACTGTGAAGATACAGAAATATGACGTGAAGATTTCTGATTAAAGCCAGTGATAT 537

Db 61 ACTGTGAAGATACAGAAATATGACGTGAAGATTTCTGATTAAAGCCAGTGATAT 120

QY 538 CTTATAGTTTGGCCGAGCTGAAGAGACCAAGTCATTTAGAGAGTCATGTTATAT 597

Db 121 CTTATAGTTTGGCCGAGCTGAAGAGACCAAGTCATTTAGAGAGTCATGTTATAT 180

QY 598 CAGAAGAAGACTTTTATGATACCATGATGATCTTGTCTGATATCTCTGAGT 657

Db 181 CAGAAGAAGACTTTTATGATACCATGATGATCTTGTCTGATATCTCTGAGT 240

QY 658 GTGGAATGCG 667

Db 241 GTGGAATGCG 250

RESULT 13

AC010187 334597 bp DNA linear HTG 09-MAY-2002

LOCUS Homo sapiens chromosome 12 clone RP11-38909, WORKING DRAFT

DEFINITION

SEQUENCE 40 unordered pieces.

AC010187

AC010187.14 GI:20279317

VERSION

KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.

SOURCE

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

1 (bases 1 to 334597)

Murphy,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C., Alabrooks,S.L., Amarantunga,H.C., Are,J.R., Ayele,M., Banks,T., Barbara,J., Benton,J., Blinage,K., Blankenburg,K., Bonnin,D., Bouck,J., Bowle,S., Brileva,M., Brown,E., Brown,M., Bryant,N.P., Burch,P., Butcher,C., Burdell,K.L., Byrd,N.C., Carron,T.F., Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Z., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R.,

Davila,M.L., Davis,C., Davy-Carroll,L., Dedrich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Dinh,H.H., Doherty,K.R., Draper,H., Dugan-Rocha,S., Durbin,K.D., Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Escotto,M., Falls,T., Ferraguto,D., Flagg,N., Ford,J., Foster,P., Frantz,P., Gabril,J., Gao,J., Garcia,A., Garner,T., Garza,N., Gill,R., Gorrell,J.H., Guevara,M., Gunaratne,P., Hale,S., Hamilton,K., Harris,C., Harris,K., Hart,M., Haylak,P., Hawes,A., Hernandez,J., Hernandez,O., Hodgson,A., Hogue,M., Holloway,C., Hollins,B., Homel,F., Howard,S., Huber,J., Hulik,S., Hume,J., Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jolyet,S., Joudah,S., Karlsson,E., Kelly,S., Khan,U., King,L., Kovach,J., Kovar,C., Kratochvic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L., Li,J., Li,Z., Lichtarge,O., Lien,C., Liu,J., Liu,W., Loubege,H., Lozano,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R., Ma,J., Maheshwari,M., Mapua,P., Martin,R., Martindale,A., Martinez,E., Massey,E., Mawhney,E., McLeod,M.P., Meador,M., Mei,G., Metzger,M., Miner,G., Miner,Z., Mitchell,T., Mohabac,K., Morgan,M., Morris,S., Moser,M., Neal,D., Newton,J., Newton,N., Nguyen,A., Nguyen,N., Nguyen,N., Nickerson,E., Nwokenkwo,S., Oguni,M., Okunolu,G., Oragunye,N., Oviedo,R., Pace,A., Payton,B., Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y., Rivers,M., Rojars,A., Rojuboan,I., Rolle,M., Ruiz,S., Savery,G., Scherer,S., Scott,G., Shen,H., Shoostari,N., Sisson,I., Sodergren,E., Sonake,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K., Tang,H., Tansey,J., Taylor,C., Taylor,T., Teitrod,B., Thomas,N., Thomas,S., Umehani,K., Vasquez,L., Vera,V., Villalón,D., Vinson,R., Wang,Q., Wang,S., Ward-Moore,S., Warren,R., Washington,C., Wallington,S., Williams,G., Williamson,A., Wleczky,R., Wooden,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D., Weinstock,G., and Gibbs,R.

QY 418 CTTGTGTAATCTCTTGGGCTTCTACGGCTTACGGAGTAATGATCAAGATCTTACGTT 477

Db 1 CTTGTGTAATCTCTTGGGCTTCTACGGCTTACGGAGTAATGATCAAGATCTTACGTT 60

QY 478 ACTGTGAAGATACAGAAATATGACGTGAAGATTTCTGATTAAAGCCAGTGATAT 537

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QY 538 CTTATAGTTTGGCCGAGCTGAAGAGACCAAGTCATTTAGAGAGTCATGTTATAT 597

Db 121 CTTATAGTTTGGCCGAGCTGAAGAGACCAAGTCATTTAGAGAGTCATGTTATAT 180

QY 598 CAGAAGAAGACTTTTATGATACCATGATGATCTTGTCTGATATCTCTGAGT 657

Db 181 CAGAAGAAGACTTTTATGATACCATGATGATCTTGTCTGATATCTCTGAGT 240

QY 658 GTGGAATGCG 667

Db 241 GTGGAATGCG 250

REFERENCE

TITLE

JOURNAL

AUTHORS

TITLE

JOURNAL

AUTHORS

TITLE

JOURNAL

COMMENT

Center: Baylor College of Medicine

Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

Project Information

Center project name: HMKV

Center clone name: RP11-38909

Summary Statistics

Sequencing vector: M13;

Chemistry: Dye-Primer Bodipy: 77% of reads

Chemistry: Dye-terminator Big Dye: 23% of reads

Assembly program: Phrap; version 0.990329

Consensus quality: 298069 bases at least Q40

Consensus quality: 323681 bases at least Q30

Consensus quality: 338387 bases at least Q20

Estimated insert size: 349203; sum-of-contigs estimation

Estimated insert size: 503842; agarose-fp estimation

Quality coverage: 2x in Q20 bases; agarose-fp estimation

Quality coverage: 3x in Q20 bases; sum-of-contigs estimation

NOTE: Estimated insert size may differ from sequence length

(see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html)

NOTE: This sequence may represent more than one clone.

NOTE: This is a 'working draft' sequence. It currently consists of 40 contigs. The true order of the pieces

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Db	30	CTTCACACTCGGAGTAACTTTCAAAAA	1	/complement(1591..1719)	/note="SPBC1711.01c"
RESULT 15				/gene="matm1"	/note="SPBC1711.01c, len:43"
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VERSION		AL535012.1		/db_xref="GI:7630159"	/translation="MSAEDLFTIQLCDQIELEKASIVINSNIKQLKKKKYQOL"
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REFERENCE		Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes; Schizosaccharomycetales; Schizosaccharomycetaceae; Schizosaccharomycetes.		/db_xref="GI:7630160"	/translation="MDSHOLAGSPISYDFLDPMCFKRYLTAKALHSIETGKAAV FVDDGPTPLIPNSQSYFLDGNASQAPROPPISEFTDQCVPGVILKSLRKDTSTER TTPPNAPLIRKREKATILKSPISINNSQVSLVEEMRNESKEVRRMRFKMSSEFYK AOHQKMPGKGYOPKRYKVR"
AUTHORS		1 (bases 1 to 38000)		/gene="matm1"	/note="Match to PF00505 HMG_box, HMG (high mobility group) box Score 118.06"
TITLE		Aert, R., Voickaert, G., Wood, V., Rajandream, M.A. and Barrell, B.G.		/complement(5424..6126)	/note="Region of similarity to SPBC2367 S. pombe chromosome 2"
JOURNAL		Direct Submission		join(7368..7392,7432..7558,7607..7881,8087..8248,8294..8481)	/gene="SPBC1711.03"
COMMENT		Submitted (19-APR-2000) European Schizosaccharomyces genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and Laboratory of Gene Technology, Katholieke Universiteit Leuven, Kardinaal Mercierlaan 92, B-3001 Leuven, Belgium		join(7368..7392,7432..7558,7607..7881,8087..8248,8294..8481)	/note="SPBC1711.03, len:259, SIMILARITY:Arabidopsis thaliana, CAB78302, hypothetical 27.9 kd protein." (246 aa), fasta scores: opt: 568, E(): 4.3e-31, (38.5% identity in 252 aa)"
		Notes: Details of yeast sequencing at the Sanger Centre are available on the World Wide Web.		/label="SPBC1711.03"	/product="conserved hypothetical transmembrane protein"
		(URL, http://www.sanger.ac.uk/projects/S_pombe/) During 1995 to 1996 about 66% of S. pombe chromosome I was sequenced by the Sanger Centre. The sequencing of the S. pombe genome is now being continued with funding from The European Commission. Fourteen European sequencing laboratories, including the Sanger Centre, are participating in the project.		/db_xref="GI:7630161"	/translation="MOKLLDPLRLRMVLLPIEFWITLIGILRHNAITLLOSPPKLS KEIRIREQLRLQRAVVALKASNSLPSIEERKFLLESLSGKYLKRPVDPNAPRAAP LMDDKLEGMESKMGMLNVPQITIMTINEFSGFILLKPLPPLTKPSIPQSG VLOPDLDVQVSSISSEWFLNI,FGIKSYVALLDENNAASVATNEMGAGGSSAAATQ LIDPGDLSKPMLSIAENVQILKNESLIVDERLLAQA"
		Protein coding regions (CDS) have been predicted with the help of computer analysis using the Genefinder program in Pombase (an ACEDB database) with additional predictions for the branch-acceptor sites supplied by the program Sp3splice. CAUTION: It is possible that for any individual CDS we may have underestimated or overestimated the number of introns/exons or we may not have chosen the correct splice donor/acceptor sites.		/codon_start=1	/label="SPBC1711.03"
		CDS are numbered using the following system eg SPBC25H2.01c. SP (S. pombe), B (chromosome 2), c25H2 (cosmid name), .01 (first CDS), c (complementary strand).		/product="mating-type m-specific polypeptide mc."	/protein_id="CAB88233.1"
		The more significant matches with motifs in the PROSITE database are also included but some of these may be fortuitous.		/db_xref="GI:7630161"	/translation="MOKLLDPLRLRMVLLPIEFWITLIGILRHNAITLLOSPPKLS KEIRIREQLRLQRAVVALKASNSLPSIEERKFLLESLSGKYLKRPVDPNAPRAAP LMDDKLEGMESKMGMLNVPQITIMTINEFSGFILLKPLPPLTKPSIPQSG VLOPDLDVQVSSISSEWFLNI,FGIKSYVALLDENNAASVATNEMGAGGSSAAATQ LIDPGDLSKPMLSIAENVQILKNESLIVDERLLAQA"
		IMPORTANT: This sequence MAY NOT be the entire insert of the sequenced clone. It may be shorter because we only sequence overlapping sections once, or longer because we arrange for a small overlap between neighbouring submissions.		/db_xref="GI:7630161"	/translation="MOKLLDPLRLRMVLLPIEFWITLIGILRHNAITLLOSPPKLS KEIRIREQLRLQRAVVALKASNSLPSIEERKFLLESLSGKYLKRPVDPNAPRAAP LMDDKLEGMESKMGMLNVPQITIMTINEFSGFILLKPLPPLTKPSIPQSG VLOPDLDVQVSSISSEWFLNI,FGIKSYVALLDENNAASVATNEMGAGGSSAAATQ LIDPGDLSKPMLSIAENVQILKNESLIVDERLLAQA"
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Search completed: March 19, 2003, 15:53:05
Job time : 62430 secs

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 18, 2003, 19:15:45 / Search time 865 Seconds
(without alignments)
4824.223 Million cell updates/sec

Title: US-09-315-355a-47

Perfect score: 1853
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Scoring table: IDENTITY NUC
Gapop 10_0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1771	95.6	1881	23	AAST70866
2	1450	78.3	2584	24	ABO54496
3	517	27.9	626	21	AAO404021
4	239.8	12.9	596	24	ABO600025
5	188.4	10.2	17197	22	AAK798870
6	150	8.1	150	24	ABN96228
7	122.8	6.6	381	21	AAH31017
8	119.8	6.5	796	24	ABO89158
9	108.8	5.9	1965	23	ABL1659

10	108.8	5.9	3965	23	ABL11658	Drosophila melanog
11	108.8	5.9	4826	23	ABL13260	Drosophila melanog
12	106	5.7	1566	21	AAO51036	Arabidopsis thaliana
13	104	5.6	553	20	AAO21042	Polyomavirus seq
14	74	4.0	261	23	AAST70865	DNA encoding novel
15	69.6	3.8	211	23	ABV17865	Human prostate exp
16	62.8	3.8	335	23	ABV47656	Human prostate exp
17	59.6	2.8	766	22	ABA49279	Human foetal liver
18	52.8	2.8	766	22	ABA67193	Human foetal liver
19	52.8	2.8	766	22	ABA34288	Probe #12754 for g
20	52.8	2.8	766	22	AA122114	Probe #12047 for g
21	52.8	2.8	766	22	AA147409	Probe #16095 used t
22	52.8	2.8	766	22	AA107812	Probe #7803 used t
23	52.8	2.8	1944	22	ABA44123	Human breast cell
24	52.8	2.8	1944	22	ABA54575	Human foetal liver
25	52.8	2.8	1944	22	ABA24359	Probe #2825 for ge
26	52.8	2.8	1944	22	AA112874	Probe #2807 for ge
27	52.8	2.8	1944	22	AA134231	Probe #2917 used t
28	52.8	2.8	1944	22	AA102791	Probe #2782 used t
29	49.2	2.7	489	22	AAH06751	Human CDNA clone (
30	49	2.6	1959	22	ABA55872	Human breast cell
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32	49	2.6	1959	22	ABA25546	Probe #4012 for ge
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34	49	2.6	1959	22	AAK29571	Human bone marrow
35	49	2.6	1959	22	AA114146	Probe #4219 for ge
36	49	2.6	1959	22	AA135531	Probe #4217 used t
37	49	2.6	1959	22	AA103994	Probe #3985 used t
38	49	2.6	1959	24	ABO4127	Human genome-deriv
39	48.4	2.6	1893	22	AAH14157	Human CDNA sequenc
40	48.4	2.6	1893	22	AAV71145	Human V3 loop HIV
41	48.4	2.6	2518	22	AAO92553	Human nucleolin DN
42	48.4	2.6	3201	23	ABV22156	Human prostate exp
43	48.4	2.6	3201	23	ABV23046	Human prostate exp
44	47.8	2.6	583	22	ABA50512	Human breast cell
45	47.8	2.6	583	22	ABA68463	Human foetal liver

ALIGNMENTS

RESULT 1
AAST70866 standard; cDNA; 1881 BP.
XX
AC AAST70866;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #6670.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YR;
XX
DR WPI, 2001-6393562/73.
XX
PT P-PSDB; ABO6679.
PT New isolated polynucleotide and encoded polypeptides, useful in

PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
PS Claim 1; SEQ ID No 6670; 103pp; English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantifying a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for creating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 1881 BP; 530 A; 376 C; 473 G; 502 T; 0 other:
Query Match 95.6%; Score 1771; DB 23; Length 1881;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1843; Conservative 0; Mismatches 10; Indels 6; Gaps 6;
QY 1 GATCCCTGAGCTGTGGCAGCAGTGGCTGTGCTCCCTTATGACCTT-GGTTTCT 59
DB 23 GATCCCTGAGCTGTGGCAGCAGTGGCTGTGCTCCCTTATGACCTTGGTTTCT 82
QY 60 AGCGGACACGCGCTTGAATTGAGGACATGAAACGCGCGCGAGGAGAGTGGTGGC 119
DB 83 AGCGGACACGCGCTTGAATTGAGGACATGAAACGCGCGCGAGGAGAGTGGTGGC 142
QY 120 CTGGGCTCCGCTGGCGCGTGGCCAAAGAGACACAGACAGTAGAGCTGATGAAAGA 179
DB 143 CTGGGCTCCGCTGGCGCGTGGCCAAAGAGACACAGACAGTAGAGCTGATGAAAGA 202
QY 180 AGTAAACGCTCATTTGCTGAGGCAAGAGAAATTCAGAAAGAGTGGTGGCAGTGA 239
DB 203 AGTAAACGCTCATTTGCTGAGGCAAGAGAAATTCAGAAAGAGTGGTGGCAGTGA 262
QY 240 TGAAGAGAGACAGGACGCTTTCAGAAAGATGGCA-TGCAGAGTGCACGCCACCCAGGCAC 298
DB 263 TGAAGAGAGACAGGACGCTTTCAGAAAGAGATGGCAAGTGCACGCCACCCAGGCAC 322
QY 299 G-CCCAAGAGAGCCCTGGA-GGATGTGACCCAGAGGA-TGACAGAGCGCTTGAATG 355
DB 323 GCCCAAGAGAGCCCTGGAAGGAGTGTGACCCAGAGATTGACAGAGCGTTGATGATG 382
QY 356 ATGAGCTGGCTGAGTACGACTTATGATTAATATGATGAGAGAGTACCCAGATGCTGAGA 415
DB 383 ATGAGCTGGCTGAGTACGACTTATGATTAATATGATGAGAGAGTACCCAGATGCTGAGA 442
QY 416 CTCTTGG-TGAATCTCTCTGGGCTTACCGGTCTACGGAGTAATGATCAATATCTTAC 474
DB 443 CTCTTGGTTGATCTCTCTGGGCTTACCGGTCTACGGAGTAATGATCAATATCTTAC 502
QY 475 GTTACTCTGAAGATACAGAAATATGAAACGTGAAGATTTCTTATTAAGCCAGTAT 534
DB 503 GTTACTCTGAAGATACAGAAATATGAAACGTGAAGATTTCTTATTAAGCCAGTAT 562
QY 535 AATCTTATAGTTTGTGGCGAGAGTGAACAGACAGTGCATTTAGAGGTGATTTAT 594
DB 563 AATCTTATAGTTTGTGGCGAGAGTGAACAGACAGTGCATTTAGAGGTGATTTAT 622

QY 595 AATCAAGAAGAGACTTTTATGATACCATGATATACTCTTGTGATATCTCTG 654
DB 623 AATCAAGAAGAGACTTTTATGATACCATGATATACTCTTGTGATATCTCTG 682
QY 655 AGTGTGAATGCTGAATTTTGTATCTTACCCAGATGATTTCTACTGAAATTAATGCT 714
DB 683 AGTGTGAATGCTGAATTTTGTATCTTACCCAGATGATTTCTACTGAAATTAATGCT 742
QY 715 GTAGAAACATGACCCCTGATTAAGTGGGACCTTGATATAGTGAATCTTTAGAG 774
DB 743 GTAGAAACATGACCCCTGATTAAGTGGGACCTTGATATAGTGAATCTTTAGAG 802
QY 775 CCAGCTTTCACACTCGAAGTAACTTTCAAAAAAGAAAGAAAGAAAGAGAGT 834
DB 803 CCAGCTTTCACACTCGAAGTAACTTTCAAAAAAGAAAGAAAGAAAGAGAGT 862
QY 835 TCCTCAGAGAAAGGACATACCGATGCTGCTCTTGAACCTTTCATGATTAATCAGA 894
DB 863 TCCTCAGAGAAAGGACATACCGATGCTGCTCTTGAACCTTTCATGATTAATCAGA 922
QY 895 AATGTTTAGAAGTGCATACGCTGACACACGTAATCTGTGGGATATGCTTGGGG 954
DB 923 AATGTTTAGAAGTGCATACGCTGACACACGTAATCTGTGGGATATGCTTGGGG 982
QY 955 AAACAGCAGCTAGCGCTGCTGTACACACAGACAGAGTCCAAACAGTGCATTTTATCCA 1014
DB 983 AAACAGCAGCTAGCGCTGCTGTACACACAGAGTCCAAACAGTGCATTTTATCCA 1042
QY 1015 TTGGAAGCAGACACTGTGATTTCTGGCTCATATGATTAAGTACGCTTTGATGATGCTC 1074
DB 1043 TTGGAAGCAGACACTGTGATTTCTGGCTCATATGATTAAGTACGCTTTGATGATGCTC 1102
QY 1075 CGAAGTCAGATGAAGGACATGATGATGGGATTCAGTGGCGATTAAGAGAGTACT 1124
DB 1103 CGAAGTCAGATGAAGGACATGATGATGGGATTCAGTGGCGATTAAGAGAGTACT 1162
QY 1135 TGAATCACTTTTACCTTTGATTTCTTGGCCAGTACAGATGAGCGGCTTGTATATAT 1194
DB 1163 TGAATCACTTTTACCTTTGATTTCTTGGCCAGTACAGATGAGCGGCTTGTATATAT 1222
QY 1195 TTGATGACGCTTCAATTAACCAATTTTACCTTAATGACACCAATGATGAATCTCT 1254
DB 1223 TTGATGACGCTTCAATTAACCAATTTTACCTTAATGACACCAATGATGAATCTCT 1282
QY 1255 GGTCTTGAATCTTACAGTCAATCAAGGCGTCTCGGATGAGTGTCAAGTGAAGATAC 1314
DB 1283 GGTCTTGAATCTTACAGTCAATCAAGGCGTCTCGGATGAGTGTCAAGTGAAGATAC 1342
QY 1315 GTGAAGATCTGGACATCTTGAAGATAGGCCAAGTCAATGTTCAATTCAGGAGCATGAAA 1374
DB 1343 GTGAAGATCTGGACATCTTGAAGATAGGCCAAGTCAATGTTCAATTCAGGAGCATGAAA 1402
QY 1375 ATGGAGTCTCTTCTGTGTTTCATGTTGCCCTGATTTGCAATTAATGCTTGGGA 1434
DB 1403 ATGGAGTCTCTTCTGTGTTTCATGTTGCCCTGATTTGCAATTAATGCTTGGGA 1462
QY 1435 GGTCAAAAAGAGGCTTGGGCTGTGGATTAAGCAAGTCTTTCAGTAAATGAAGCA 1494
DB 1463 GGTCAAAAAGAGGCTTGGGCTGTGGATTAAGCAAGTCTTTCAGTAAATGAAGCA 1522
QY 1495 TTGGAAGACAGAGAGGCTTGTCTTGGAGTCAAGAAATTCATCTAATAGTGGCCCT 1554
DB 1523 TTGGAAGACAGAGAGGCTTGTCTTGGAGTCAAGAAATTCATCTAATAGTGGCCCT 1582
QY 1555 TTGGAAGACAGAGCTCAGATACACCAATGAGTCTTATGAGATCATCTAATTTCTG 1614
DB 1583 TTGGAAGACAGAGCTCAGATACACCAATGAGTCTTATGAGATCATCTAATTTCTG 1642
QY 1615 CTTACCTTAATCTGGGAATTTTAAAGTTGGCTTAAATTTTCAATCCGTCGAGAGAC 1674
DB 1643 CTTACCTTAATCTGGGAATTTTAAAGTTGGCTTAAATTTTCAATCCGTCGAGAGAC 1702

QY 1675 CATGACAGTACTGAAACAAATTCATTCTGACTGACATCTCTTCTGCAACCTGGCGT 1734
 DB 1703 CATTGACAGTACTGAAACAAATTCATTCTGACTGACATCTCTTCTGCAACCTGGCGT 1762
 QY 1735 GGCACCAACAAATTCGGGTTTGTGCTTCTCTTCAGATGATGTTTGTAAAGCTCTT 1794
 DB 1763 GGCACCAACAAATTCGGGTTTGTGCTTCTCTTCAGATGATGTTTGTAAAGCTCTT 1822
 QY 1795 GTTGCAATTTCTTAAAAAGAGTATATAAAGATTTTAAAGTAAATTCCTTAACAT 1853
 DB 1823 GTTGCAATTTCTTAAAAAGAGTATATAAAGATTTTAAAGTAAATTCCTTAACAT 1881

RESULT 2
 AB054496
 ID AB054496 standard; cDNA; 2584 BP.
 XX AB054496;
 AC
 XX
 XX 22-AUG-2002 (first entry)
 DT
 XX
 XX Human antigen HCOQH27 cDNA, SEQ ID NO:376.
 DE
 XX Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
 KM ovarian cancer; breast cancer; tumour; reproductive system disorder;
 KM infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
 KM PCOS; ovarian cyst; dysmenorrhoea; endocrine disorder; infection;
 KM inflammatory condition; immune disorder; blood disorder;
 KM cardiovascular disorder; respiratory disorder; neurological disorder;
 KM gastrointestinal disorder; urinary system disorder; drug screening;
 KM gene therapy; chromosome mapping; forensic analysis;
 KM antibody preparation; cytostatic; immunomodulatory; neuroprotective;
 KM antiinflammatory; gynaecological; reproductive; chromosome 12;
 KM gene; ss.

OS Homo sapiens.
 XX
 XX MO200200677-A1.
 PN
 XX
 XX 03-JAN-2002.
 PD
 XX
 XX 07-JUN-2001; 2001WO-US18569.
 PF
 XX
 XX 07-JUN-2000; 2000US-209467P.
 PR
 XX
 XX (HUMA-) HUMAN GENOME SCI INC.
 PA
 XX
 XX Birse CE, Rosen CA;
 PI
 XX
 XX WPI: 2002-147878/19.
 DR
 XX
 XX F-PSDB; ABP41419.
 XX
 XX
 XX Isolated nucleic acid molecules encoding novel ovarian polypeptides,
 PT useful in the prevention, treatment and diagnosis of cancer (e.g.
 PT ovarian cancer), immune disorders, cardiovascular disorders and
 PT neurological diseases -
 PT
 XX
 XX Claim 1, SEQ ID No 376; 2922bp; English.
 PS
 XX
 XX The invention relates to 2175 novel human ovarian antigens (ABP41054-
 CC ABP43228) and to cDNAs encoding them (AB054131-AB056305), and also
 CC encompasses polypeptides 90% identical and polynucleotides 95% identical
 CC to the sequences of the invention. The invention additionally relates to
 CC recombinant vectors and host cells comprising human ovarian antigen
 CC polynucleotides, antibodies against human ovarian antigens, and the use
 CC of ovarian antigen polynucleotides and polypeptides in diagnosing,
 CC treating, prognosing or preventing various ovary and/or breast-related
 CC disorders. Such conditions include ovarian cancer and breast cancer, and
 CC metastatic tumours of ovarian or breast origin, reproductive system
 CC disorders (e.g., infertility, disorders of pregnancy, anovulation,
 CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine
 CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
 CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and

CC vaginitis), immune disorders (e.g., congenital and acquired
 CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
 CC blood-related disorders (e.g., anaemia), cardiovascular disorders,
 CC respiratory disorders, neurological disorders, gastrointestinal disorders
 CC and urinary system disorders. Ovarian antigen polypeptides and
 CC polynucleotides may also be used in screening for compounds which
 CC modulate ovarian antigen expression or activity. The polynucleotides may
 CC further be used for gene therapy, chromosome mapping, in the
 CC identification of individuals and in forensic analysis, and the
 CC polypeptides may be used as food additives or to prepare antibodies
 CC useful in disease diagnosis, drug targeting and phenotyping. The present
 CC sequence represents cDNA encoding a human ovarian antigen of the
 CC invention.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX
 SQ Sequence 2584 BP; 804 A; 454 C; 529 G; 796 T; 1 other;

Query Match 78.3%; Score 1450; DB 24; Length 2584;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1450; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 404 CAGATGCTGAGACTCTTGTGTAATCTCTTGGGCTTACGGTCTACGGAGTATGATC 463
 DB 129 CAGATGCTGAGACTCTTGTGTAATCTCTTGGGCTTACGGTCTACGGAGTATGATC 188
 QY 464 AAGATCCTTACGTTACTCTGAAAGATACAGAACATATGAAACCTGAAGATTTCTGATTA 523
 DB 189 AAGATCCTTACGTTACTCTGAAAGATACAGAACATATGAAACCTGAAGATTTCTGATTA 248
 QY 524 AGCCAGTGTATCTTATATGTTTGTGGCCGAGCTGACAGACCAAGTGAATTTAGAG 583
 DB 249 AGCCAGTGTATCTTATATGTTTGTGGCCGAGCTGACAGACCAAGTGAATTTAGAG 308
 QY 584 TGCATGTTTAAATCAAGAAAGAACTTTTATATGATACCATATATCTTGTCTG 643
 DB 309 TGCATGTTTAAATCAAGAAAGAACTTTTATATGATACCATATATCTTGTCTG 368
 QY 644 CATATCCTCGAGTGTGGAATGGCTGAATTTTATCTTACCCAGATGATTTACAGGA 703
 DB 369 CATATCCTCGAGTGTGGAATGGCTGAATTTTATCTTACCCAGATGATTTACAGGA 428
 QY 704 ATTACATGCTGTAGGAAACATGACCCCTGTATATGAAAGTGTGGACCTTGATATAGTG 763
 DB 429 ATTACATGCTGTAGGAAACATGACCCCTGTATATGAAAGTGTGGACCTTGATATAGTG 488
 QY 764 ACTCTTTAGAGCCAGTCTTACACTCGGAAGTAACTTTCAAAAAAGAAAAAGAAAG 823
 DB 489 ACTCTTTAGAGCCAGTCTTACACTCGGAAGTAACTTTCAAAAAAGAAAAAGAAAG 548
 QY 824 GAAAGAAAGATTTCTCAGCAGAAAGGGCATACCGATGTCTCTTACCTTTCATGAAATA 883
 DB 549 GAAAGAAAGATTTCTCAGCAGAAAGGGCATACCGATGTCTCTTACCTTTCATGAAATA 608
 QY 884 AGCTAATCAGAAAGTTTTGAAGTGCATCAGCTGCAACACTGTAAATCTGAGGATA 943
 DB 609 AGCTAATCAGAAAGTTTTGAAGTGCATCAGCTGCAACACTGTAAATCTGAGGATA 668
 QY 944 TGTCTTTGGGAAACACAGCAGTACCTGCTGTACACACAGCAAGGTCACCAACTGC 1003
 DB 669 TGTCTTTGGGAAACACAGCAGTACCTGCTGTACACACAGCAAGGTCACCAACTGC 728
 QY 1004 AGTTTATCATTGGAAGCAGACCTCTGATTTCTGCTCATATGATATCTAGTGCTT 1063
 DB 729 AGTTTATCATTGGAAGCAGACCTCTGATTTCTGCTCATATGATATCTAGTGCTT 788
 QY 1064 TGTATGACTCCGAGAGTCCAGATGAAGCCATGGAATGTGGCATTACAGTGGCAGATAG 1123
 DB 789 TGTATGACTCCGAGAGTCCAGATGAAGCCATGGAATGTGGCATTACAGTGGCAGATAG 848
 QY 1124 AGAGAGTACTGGAATCACTTTTACCTTTGATTTCTTGGCAGTACAGATGACGGCT 1183

Db 849 AGAGAGTACTGGAAATCACTTTCACTTGTCTTGGCCAGTACAGATGCGCT 908
 Qy 1184 TTGTATATATTTGGATGACGCTTGCATTAAGCCATTTTTCACCTTAATGACACAATG 1243
 Db 909 TTGTATATATTTGGATGACGCTTGCATTAAGCCATTTTTCACCTTAATGACACAATG 968
 Qy 1244 ATGAATCTCTGCTTGTATCTTACAGAGTCAATCAAGGCTGTCTGCTGCTTCAAG 1303
 Db 969 ATGAATCTCTGCTTGTATCTTACAGAGTCAATCAAGGCTGTCTGCTGCTTCAAG 1028
 Qy 1304 CTGCAATATAGTGAAGATCTGGGACATCTTGGAGATAGGCAAGTCTAGTCAATCTGA 1363
 Db 1029 CTGCAATATAGTGAAGATCTGGGACATCTTGGAGATAGGCAAGTCTAGTCAATCTGA 1088
 Qy 1364 GGGACATGAATAAGGAGTCTCTTCTGTCTTCAATGTTGCCCTGATTTGCCATTTATTT 1423
 Db 1089 GGGACATGAATAAGGAGTCTCTTCTGTCTTCAATGTTGCCCTGATTTGCCATTTATTT 1148
 Qy 1424 ATGCTTTGGAGGTCATAAAGAGGCTTGGGCTTGGGATTAAGCACAGTCTTTCAG 1483
 Db 1149 ATGCTTTGGAGGTCATAAAGAGGCTTGGGCTTGGGATTAAGCACAGTCTTTCAG 1208
 Qy 1484 TAAATGAAGCAATTGGAGAGGAGAGGCTTGTCTTGGGAGTGCAGAAATTCATCTA 1543
 Db 1209 TAAATGAAGCAATTGGAGAGGAGAGGCTTGTCTTGGGAGTGCAGAAATTCATCTA 1268
 Qy 1544 TTAGTGCGCTTTTGGGAGAGGAGCTCAGATACACCCATGAGTCTTAAATGAATCAT 1603
 Db 1269 TTAGTGCGCTTTTGGGAGAGGAGCTCAGATACACCCATGAGTCTTAAATGAATCAT 1328
 Qy 1604 CTAATTTCTGCTTACCTTAACCTGGAATTTTAAAGTTGGCTTAAATTTCCATGTC 1663
 Db 1329 CTAATTTCTGCTTACCTTAACCTGGAATTTTAAAGTTGGCTTAAATTTCCATGTC 1388
 Qy 1664 GTGGCAGACCATGACAGAGTACTGAAACACAATTCATTTCTGACTGACATTCCTTCT 1723
 Db 1389 GTGGCAGACCATGACAGAGTACTGAAACACAATTCATTTCTGACTGACATTCCTTCT 1448
 Qy 1724 GCAACTGCGGTGGACCAACAATATCCGCTCTTGTGCTTCTTTCAGATGATGATTT 1783
 Db 1449 GCAACTGCGGTGGACCAACAATATCCGCTCTTGTGCTTCTTTCAGATGATGATTT 1508
 Qy 1784 GTAAGCTCTTGTGCTTCTTAAAGAGTAAATTAAGAGATTTTAAAGATTAAT 1843
 Db 1509 GTAAGCTCTTGTGCTTCTTAAAGAGTAAATTAAGAGATTTTAAAGATTAAT 1568
 Qy 1844 CCTTAAACAT 1853
 Db 1569 CCTTAAACAT 1578

RESULT 3
 AAC04021
 ID AAC04021 standard; cDNA, 626 BP.

XX AAC04021;
 AC 06-OCT-2000 (first entry)
 DT 06-OCT-2000 (first entry)
 DE Human secreted protein 5' EST, SEQ ID NO: 4019.
 XX Human, 5' EST, expressed sequence tag; secreted protein; cDNA isolation;
 KM gene therapy; chromosome mapping; ss.
 OS Homo sapiens.
 XX Homo sapiens.
 PN EPI033401-A2.
 XX EPI033401-A2.
 PD 06-SEP-2000.
 XX 06-SEP-2000.
 PF 21-FEB-2000; 2000EP-0200610.
 XX 21-FEB-2000; 2000EP-0200610.
 PR 26-FEB-1999; 99US-0122487.

XX (GEST) GENSET.
 PA Dumas Milne Edwards J, Duclert A, Giordano J;
 XX WPI: 2000-500381/45.
 PI P-PSDB; AM04015.
 XX
 DR
 XX
 PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
 PS Claim 1; SEQ ID 4019; 71bp + CD-ROM, English.

Sequence 626 BP; 162 A; 142 C; 187 G; 135 T; 0 other.

Query Match 27.9%; Score 517; DB 21; Length 626;
 Best Local Similarity 95.2%; Pred. No. 2,3e-138;
 Matches 555; Conservative 0; Mismatches 0; Indels 28; Gaps 1;

Qy 1 GATCCTGAGGCTGGGAGAGTCCGCTGCTGCTCCTCCCTATGACGCTGCTTCTA 60
 Db 44 GATCCTGAGGCTGGGAGAGTCCGCTGCTGCTCCTCCCTATGACGCTGCTTCTA 103
 Qy 61 GCGTGACAGCGCTTGAATTTAGAGACATGAACCGACCGCCAGAGTACGCTGCTGCC 120
 Db 104 GCGTGACAGCGCTTGAATTTAGAGACATGAACCGACCGCCAGAGTACGCTGCTGCC 163
 Qy 121 TGGTCCGCTGCGGCGTGGCCAAAGAGACACACAGCAAGAGTGAAGTGAAGAA 180
 Db 164 TGGTCCGCTGCGGCGTGGCCAAAGAGACACACAGCAAGAGTGAAGTGAAGAA 223
 Qy 181 GTAAAGCCCTCATTTCTGAGGCAAGAGAAATTGCAAGAAAGAGTGGGAGAT 240
 Db 224 GTAAAGCCCTCATTTCTGAGGCAAGAGAAATTGCAAGAAAGAGTGGGAGAT 283
 Qy 241 GAAGAGAGCAGCAGTCTTCAAGAGATGCGATGACGACCGACCCAGGACGCG 300
 Db 284 GAAGAGAGCAGCAGTCTTCAAGAGATGCGATGACGACCGACCGACCGACGCG 343
 Qy 301 CCAAGAGAGCCCTTGAAGATGTGACCCAGAGATGACAGAGCTTGAATGATGAG 360
 Db 344 CCAAGAGAGCCCTTGAAGATGTGACCCAGAGATGACAGAGCTTGAATGATGAG 403
 Qy 361 CTGGCTGAGTACGACTTGAATATGATGAGAGAGTGAACCGAGTCTGAGATCTT 420
 Db 404 CTGGCTGAGTACGACTTGAATATGATGAGAGAGTGAACCGAGTCTGAGATCTT 463
 Qy 421 GGTGAATCTCTTGGGCTTACAGGTCTACGAGAGTATGATCAAGATCTTACGTTACT 480
 Db 464 GGTGAATCTCTTGGGCTTACAGGTCTACGAGAGTATGATCAAGATCTTACGTTACT 523
 Qy 481 CTGAAGATACA-----GAACATATGAAGCTGAAGA 512
 Db 524 CTGAAGATACATCAATGATATTTTCTCTCCTCATTAGGACAAATATGAAGCTGAAGA 583
 Qy 513 TTCTTGATTAAGCCCACTGATTAATCTTATATGTTTGGCCGA 555

Db 584 TTCTTGATTAGCCGAGATATCTTATGTTTGCCGA 626

RESULT 4
AB060025
ID AB060025 standard; cDNA; 596 BP.
XX
AC AB060025;
XX
DT 02-AUG-2002 (first entry)
XX
DE Human colon cancer related nucleotide sequence SEQ ID NO:3720.
XX
KW Human; colon cancer; cancer; tissue profiling; forensic; mapping;
XX genetic analysis; diagnostic; antisense therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200229086-A2.
XX
PD 11-APR-2002.
XX
PF 02-OCT-2001; 2001WO-US30732.
XX
PR 02-OCT-2000; 2000US-237271P.
XX
PA (FARB) BAYER CORP.
XX
PI Burgess C, Aetle JH, Carroll E, Catino TJ, Dwivedi P, Molino GA;
PI Thiglingam A, Lewis ME;
DR WPI; 2002-426115/45.
XX
PT New isolated nucleic acid that is differentially expressed in cancer
XX tissues useful for determining the presence of colon cancer in a cell
XX or tissue type, and in antisense therapy -
XX
PS Claim 1; Fig 1; 796bp; English.
XX
CC AB06306 to AB060787 represent isolated nucleic acids (I) differentially
CC expressed in cancer tissues. ABB78993 to ABB79004 represent proteins
CC encoded by the AB060776 to AB060787 nucleic acid sequences. (I) can be
CC used in antisense therapy. An antibody immunoreactive with a polypeptide
CC encoded by (I) is useful for detecting cancer in a patient sample, and
CC for detecting the presence or absence of a polynucleotide encoded by a
CC nucleic acid which hybridises to (I) in a cell. A probe/primer derived
CC from (I) can be used for determining the presence of a nucleic acid which
CC hybridises to (I), and for determining the phenotype of cells in a sample
CC of cells from a patient. (I) is useful for determining the presence of
CC colon cancer in a cell or tissue type, for determining the presence or
CC state of other type of cancer, in antisense therapy, to generate
CC macroarrays on a solid surface, to identify a chromosome on which the
CC corresponding gene resides, and in tissue profiling, forensics, genetic
CC analysis, mapping and diagnostic applications. (I) can be used to raise
CC antibodies, and to screen for peptide analogues and antagonists.
XX
SQ Sequence 596 BP; 179 A; 120 C; 116 G; 158 T; 23 other;

Query Match 12.9%; Score 239.8; DB 24; Length 596;
Best Local Similarity 97.2%; Pred. No. 1.7e-58;
Matches 241; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 371 ACGACTAGTAATATGATGAGGAAGTGACCCAGATGCTGAGACTCTTGGAATCTC 430
Db 1 ACGACTTAATATATGATGAGGAAGTGACCCAGATGCTGGAATCTC 60
QY 431 TCTTGGCTCTTACGCTCTACGGAGTAATGATCAAGATCTTACGTTACTCTGAAGATA 490
Db 61 TCTTGGCTCTTACGCTCTACGGAGTAATGATCAAGATCTTACGTTACTCTGAAGATA 120
QY 491 CAGAACAAATATGACGTAAGATTTCTTGATTTAAGCCAGTGAATCTTATAGTTTGTG 550
Db 121 CAGAACAAATATGACGTAAGATTTCTTGATTTAAGCCAGTGAATCTTATAGTTTGTG 180

QY 551 GCCGACTGAAACAGACACGATGCAATTTAGAGTGATGTTATATCAAGAAAGACT 610
Db 181 GCCGACTGAAACAGACACANTGCAATTTATAGGCGCATGTTTATATCAAGAAAGACT 240
QY 611 CTTTATTAT 618
Db 241 CTTTATTAT 248

RESULT 5
AAK79870/C
ID AAK79870 standard; DNA; 17197 BP.
XX
AC AAK79870;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:34682.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01354.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225477.
PR 14-AUG-2000; 2000US-0225477.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226868.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227182.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.


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RESULT 6
ABN96228/c
ID ABN96228 standard; DNA; 150 BP.
XX
AC ABN96228;
XX
DT 13-AUG-2002 (first entry)
XX
DE Gene #2726 used to diagnose liver cancer.
XX
KW Gene; liver cancer; ds; hepatocellular carcinoma; hepatotropic;
metastatic liver tumor; cytostatic; expression profile; disease state;
disease progression; drug toxicity; drug efficacy; drug metabolism.
XX
OS Homo sapiens.
XX
PN WO200229103-A2.
XX
PD 11-APR-2002.
XX
PF 02-OCT-2001; 2001WO-US30589.
XX
PR 02-OCT-2000; 2000US-237054P.
XX
PA (GENE-) GENE LOGIC INC.
XX
PI Horne D, Alvares C, Petes-Da-Silva S, Vockley JG;
XX
DR WPI; 2002-426119/45.
XX
PT Diagnosing and detecting the progression of liver cancer,
PT hepatocellular carcinoma or metastatic liver tumor in a patient,
PT involves detecting the level of expression of two or more genes in a
PT liver tissue sample
XX
PS Claim 1; SEQ ID NO 2726; 298bp; English.
XX
CC The invention relates to a novel method for diagnosing and detecting the
CC progression of liver cancer, hepatocellular carcinoma or metastatic liver
CC tumor in a patient, and differentiating metastatic liver cancer from
CC hepatocellular carcinoma in a patient, involving detecting the level of
CC expression of two or more genes represented in ABN93503-ABN97455 in a
CC tissue sample. The method of the invention has hepatotropic, and
CC cytostatic activity. The method is useful for diagnosing and detecting
CC the progression of liver cancer, hepatocellular carcinoma and metastatic
CC liver carcinoma in a patient. The method is useful for identifying
CC expression profiles which serve as useful diagnostic markers as well as
CC markers that can be used to monitor disease states, disease progression,
CC drug toxicity, drug efficacy and drug metabolism.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 150 BP; 44 A; 33 C; 28 G; 45 T; 0 other;
XX
Query Match 8.1%; Score 150; DB 24; Length 150;
Best Local Similarity 100.0%; Pred. No. 5.7e-33;
Matches 150; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 660 GGAATGCGTGAATTTGATCCTGACCGAGATGATTTACTGGAATTAATCTGCTGAGG 719
DB 150 GGAATGCGTGAATTTGATCCTGACCGAGATGATTTACTGGAATTAATCTGCTGAGG 91
OY 720 AAACATGACCCCTGTTATGAGTGAGGACCTTGATATATAGTGAGACTTTAGAGCCAGT 779
DB 90 AAACATGACCCCTGTTATGAGTGAGGACCTTGATATATAGTGAGACTTTAGAGCCAGT 31
OY 780 CTTGACACTCGGAAGTAACTTTCAAAAA 809
DB 30 CTTGACACTCGGAAGTAACTTTCAAAAA 1
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RESULT 7
AAH31017
ID AAH31017 standard; cDNA; 381 BP.
XX
AC AAH31017;
XX
DT 27-JUL-2001 (first entry)
XX
DE Human colon cancer cell line Km12L4-A cDNA library derived sequence #951.
XX
KW Human; diagnosis; colon cancer; cancer; malignant; chromosome mapping;
detection; colon cancer cell line Km12L4-A; ss.
XX
OS Homo sapiens.
XX
PN WO200018916-A2.
XX
PD 06-APR-2000.
XX
PF 23-SEP-1999; 99WO-US22226.
XX
PR 28-SEP-1998; 98US-0102161.
PR 28-SEP-1998; 98US-0102180.
PR 29-SEP-1998; 98US-0102380.
PR 08-OCT-1998; 98US-0103815.
PR 27-OCT-1998; 98US-0105877.
XX
PA (CHIR ) CHIRON CORP.
PA (HYSE-) HYSEQ INC.
XX
PI Williams LT, Escobedo J, Innis MA, Garcia PD, Sudduth-Klinger J;
PI Reinhard C, Glese K, Randazzo F, Kennedy GC, Pot D, Kassam A;
PI Lamson G, Drmanac R, Crkvenjakov R, Dickson M, Drmanac S, Labat I;
PI Leshkowitz D, Kita D, Garcia V, Jones LM, Stache-Crain B;
XX
DR WPI; 2000-293155/25.
XX
PT Polynucleotide library comprising 1079 defined sequences, useful in
PT the form of an array to detect cancer or susceptibility to cancer -
XX
PS Claim 1; Page 455; 502bp; English.
XX
CC The present invention describes a library of polynucleotides comprising
CC 1079 nucleotide sequences (given in AAH30067 to AAH31145). Also described
CC are: (1) an isolated polynucleotide (I) having at least 90% identity to
CC one of the 1079 sequences; (2) a recombinant host cell containing (1);
CC (3) an isolated polypeptide (II) encoded by (I); (4) an antibody that
CC specifically binds to (II); (5) a vector comprising (I); and (6) a method
CC of detecting differentially expressed genes correlated with a cancerous
CC state of a mammalian cell comprising detecting a gene product encoded by
CC 65 of the 1079 sequences given in the specification. The polynucleotides
CC are used to monitor patients having (or susceptible) to cancer to detect
CC potentially malignant events at a molecular level before they are
CC detectable at a gross morphological level. The polynucleotides are also
CC useful for monitoring the efficacy of various therapies and preventive
CC interventions. Polynucleotide probes based on the disclosed sequences
CC are useful for chromosome mapping and detection of transcription levels.
CC The 1079 polynucleotide sequences were derived from a human colon cancer
CC cell line Km12L4-A cDNA library.
XX
SQ Sequence 381 BP; 67 A; 115 C; 129 G; 70 T; 0 other;
XX
Query Match 6.6%; Score 122.8; DB 21; Length 381;
Best Local Similarity 94.8%; Pred. No. 6.6e-25;
Matches 127; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
XX
OY 38 CTCCTATGACAGCGTGGTTTCTAGCGTGACAGCCCTTGACTTGAGGACATGAACCGCA 97
DB 1 CTCCTATGACAGCTGGTTTCTAGCGTGACAGCCCTTGACTTGAGGACATGAACCGCA 60
OY 98 GCGGCGAGGTGACGTGCGTGGCTGGCTGGCGGCGGCGGCGCAAGAGACACCGACA 157
```

Db 61 GCCGCCAGTGACGTGGCTGGTCCGCTCGCGGTGGCCCAAGACACACAGACA 120
 QY 158 AGGTAGAGCTGAGT 171
 Db 121 AGGTAGAGCTGCTGT 134

RESULT 8
 ABQ89158/c
 ID ABQ89158 standard; cDNA; 796 BP.
 XX
 AC ABQ89158;

XX 27-SEP-2002 (first entry)

XX Human prostate expressed polynucleotide SEQ ID NO 414.

XX Human; prostate; cytostatic; tumour; cancer; vaccine; gene therapy;
 KW gene; ss.

XX Homo sapiens.

XX WO200255700-A2.

XX 18-JUL-2002.

XX 07-DEC-2001; 2001WO-US47349.

XX 07-DEC-2000; 2000US-254648P.
 PR 13-MAR-2001; 2001US-275688P.

XX (CHIR) CHIRON CORP.
 PA (HYSE-) HYSEQ INC.

XX Escobedo J, Garcia PD, Kassem A, Lamson G, Drmanac R;
 PI Ckernjakov R, Dickson M, Drmanac S, Labat I, Leshkowitz D;
 PI Kita D, Garcia V, Jones WL, Stachne-Crain B, Scott EM;

XX WPI; 2002-557824/59.

XX New genes and gene products isolated from human prostate, useful for
 PT treating or diagnosing tumor or cancer (e.g. prostate cancer or breast
 PT cancer), or as vaccines for treating or preventing these diseases -

XX Claim 1; SEQ ID NO 414; 186bp + Sequence Listing; English.

XX The invention relates to an isolated polynucleotide comprising any of
 CC 1477 sequences or its fragment, degenerate variant, antisense or
 CC complement. The polynucleotides and gene products are useful for treating
 CC or diagnosing tumour or cancer (e.g. prostate cancer, breast cancer,
 CC lung cancer or medullary carcinoma) in a subject (e.g. cattle, dogs,
 CC cats, rabbits, horses or human). The polynucleotides and polypeptides are
 CC also useful as vaccines for treating or preventing these diseases. The
 CC polynucleotides are useful for gene therapy. The present sequence is that
 CC of one of a group of polynucleotides (ABQ88745-ABQ90015) disclosed
 CC electronically as sequences of the invention. However only 1271
 CC polynucleotide sequences are given, whereas 1477 polynucleotides and 91
 CC proteins are claimed.

CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence.

XX Sequence 796 BP; 254 A; 161 C; 170 G; 178 T; 33 other;

XX Query March 6.5%; Score 119.8; DB 24; Length 796;
 XX Best Local Similarity 94.7%; Pred. No. 7.4e-24;
 XX Matches 124; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 589 GTTATATCAAGAGAGACTCTTTTATGTACACCATGATATATCTTGTCTGCATAT 648

Db 307 GTTATATCAAGAGAGACTCTTTTATGTACACCATGATATATCTTGTCTGCATAT 248

QY 649 CCTGTGAGTGTGAATGGCTGAATTTGATCTTACGCCAGATGATTTCTACTGGAATTAC 708

Db 247 CCTGTGAGTGTGAATGGCTGAATTTGATCTTACGCCAGATGATTTCTACTGGAATTAC 188
 QY 709 ATTGCTGTAGG 719
 Db 187 AAAACTTAAGG 177

RESULT 9
 ABL11659
 ID ABL11659 standard; cDNA; 1965 BP.
 XX
 AC ABL11659;

XX 26-MAR-2002 (first entry)

XX Drosophila melanogaster expressed polynucleotide SEQ ID NO 29459.

XX Drosophila; developmental biology; cell signalling; insecticide;
 KW pharmaceutical; gene; ss.

XX Drosophila melanogaster.

XX WO200171042-A2.

XX 27-SEP-2001.

XX 23-MAR-2001; 2001WO-US09231.

XX 23-MAR-2000; 2000US-191637P.
 PR 11-JUL-2000; 2000US-0614150.

XX (PEKE) PE CORP NY.

XX Venter JC, Adams M, Li PWD, Myers EW;

XX WPI; 2001-656860/75.
 DR P-PSDB; ABB67556.

XX New isolated nucleic acid detection reagent for detecting 1000 or more
 PT genes from Drosophila and for elucidating cell signalling and cell-cell
 PT interactions -

XX Claim 1; SEQ ID NO 29459; 21bp + Sequence Listing; English.

XX The invention relates to an isolated nucleic acid detection reagent
 CC capable of detecting 1000 or more genes from Drosophila. The invention is
 CC useful in developmental biology and in elucidating cell signalling and
 CC cell-cell interactions in higher eukaryotes for the development of
 CC insecticides, therapeutics and pharmaceutical drugs. The invention
 CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
 CC sequences (ABB5737-ABB72072).
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 1965 BP; 530 A; 486 C; 510 G; 439 T; 0 other;

XX Query March 5.9%; Score 108.8; DB 23; Length 1965;
 XX Best Local Similarity 48.0%; Pred. No. 1.8e-20;
 XX Matches 462; Conservative 0; Mismatches 467; Indels 33; Gaps 4;

QY 493 GACACATATGAACGTGAAGATTTCTGATTAAGCCAGTATATCTTATAGTTTGGC 552

Db 425 GAAGACTCCGAGCGCGAGAGACGAGTGATCAAGCCAGCACTCATCTAGTGGT 484

QY 553 CGAGTGAACGAGACCACTGCAATTTAGAGTGATCTTTATATCAAGAGAGACTCT 612

Db 485 CACGTTCAAGCGAGCGCGCTCCATGAGGTGTGGTTTCAACCGAGAGAGAGGCT 544

QY 613 TTTATATGACCACTGATATATCTTGTCTGCATATCTTGAAGTGAATGGCTGAT 672

Db 545 CTCTACACCCACGACGCTTTCTGCTGCCAAGCTTCTCTGTCATCGATGATGAAT 604
 Qy 673 TTGATCTTACCCAGATGATTTCTACTGAAATTTACATGCTGTAGAGAAACCTCT 732
 Db 605 CAGACGCGGGCAGCGGAAA---GGCGGCAACATGTGCCCATCGGCTGATGATCCG 661
 Qy 733 GTTATTGAAGTGTGGAGCTTTGATATATAGTGAATCTTTAAGCCAGCTTCACTCGGA 792
 Db 662 ATATACAGCTGTGGGATGTAGACATACAGAGCGCTATCGAGCCCATTTAAGCTGGT 721
 Qy 793 AGTAACTTTCAAAAAGAAAAGAAAAGAAAAGAAAGAGTCTCTAGACAGAAAGGCAT 852
 Db 722 TCCAAAGGACCGCGAAGCAAAAGAA-----GCAATATGACAC 763
 Qy 853 ACCGATGCTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 912
 Db 764 AAGGACGCGCTGTGATCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 823
 Qy 913 TCAGCTGACAACTGTATTTCTGTGGGATATGTCTTGGGGAAACGAGACGTAAGCTTC 972
 Db 824 TCCGTGGACCAACTGTGATTTCTGTGGGATGATGACGAGGGCCAGCTCTATCAACCAT 883
 Qy 973 GCGTACACACACAGACAGATTCACACCTGACATTTCTTCTTCTTCTTCTTCTTCT 1032
 Db 884 ACCGCTTTTGGCAACAGATTCAGTGGTGAATTCATTCGCAAGGCTTCAAAAGCAT 943
 Qy 1033 ATTTCTGAGCTCATATGATATAGTCAATGCTTTTCTTCTTCTTCTTCTTCTTCT 1092
 Db 944 CTTACCGGCTGTGCGGATGATAGTACGTCGACTCTTCTTCTTCTTCTTCTTCTTCT 1003
 Qy 1093 CA-----TCGAATGTGGCGATTCAGTGGGCAATGAGAGAGTGAATTCAC 1143
 Db 1004 AACTGCTCCAGCATTTGAGTGAAGATTCAGGATGAGAGAGTGGTCTGTGGCATCCC 1063
 Qy 1144 TTTTACCTTTGATATTTCTTGGCCAGTACAGATGAGCGCTTTGATATTTGATGATCA 1203
 Db 1064 ACAACAGCCGACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1123
 Qy 1204 CGTTC---AGATAAGCCCAATTTTACATTTATGACACACATGATGAAATCTGTGCTT 1260
 Db 1124 CGTTCCTTGGACACCTGCTGTGTGCTGTGTAAGGCCACACAGAGAAATCTCGGTGTG 1183
 Qy 1261 GATCTTACAGTCAAAATCAAGGGCTGTCTGTGATGATGCTTCAAGTGAACAAATAC 1320
 Db 1184 TGCTTCAACACAGCAAGGCTTATCTGTGATGCTTCAAGTGAACAAATAC 1243
 Qy 1321 ATCTGGACATCTTAGAGATAGAGCCCAAGTCTGATCTTATCTTAGGACATGAAATGG 1380
 Db 1244 GTGTGAACTTTGATGACACAGAGGCAAGCAAGTCTTACGAGCAAGATTCATGAGT 1303
 Qy 1381 GTTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1440
 Db 1304 CGCTTCAAGTGTGATGAGCGGCGGCGGAGGATCTTCAACCTTCTTCTTCTTCTTCT 1363
 Qy 1441 AA 1442
 Db 1364 AA 1365

RESULT 10
 ABL11658
 ID ABL11658 standard; cDNA; 3965 BP.
 XX
 AC ABL11658;
 XX
 XX 26-MAR-2002 (first entry)
 DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 29456.
 XX
 XX Drosophila: developmental biology; cell signalling; insecticide;
 KM pharmaceutical; gene; ss.
 XX
 OS Drosophila melanogaster.

XX
 PN WO200171042-A2.
 XX
 PD 27-SEP-2001.
 XX
 PF 23-MAR-2001; 2001WO-US09231.
 XX
 PR 23-MAR-2000; 2000US-191637P.
 PR 11-JUL-2000; 2000US-0614150.
 XX
 PA (PERKE) PE CORP NY.
 XX
 PI Venter JC, Adams M, Li PWD, Myers EW;
 XX
 DR WPI; 2001-656860/75.
 DR P-PDSB; ABB67555.
 XX
 PT New isolated nucleic acid detection reagent for detecting 1000 or more
 PT genes from Drosophila and for elucidating cell signalling and cell-cell
 PT interactions -
 PS
 PS Claim 1; SEQ ID NO 29456; 21bp + Sequence Listing; English.
 XX
 CC The invention relates to an isolated nucleic acid detection reagent
 CC capable of detecting 1000 or more genes from Drosophila. The invention is
 CC useful in developmental biology and in elucidating cell signalling and
 CC cell-cell interactions in higher eukaryotes for the development of
 CC insecticides, therapeutics and pharmaceutical drugs. The invention
 CC discloses genomic DNA sequences (ABL1617-ABL30511), expressed DNA
 CC sequences (ABL101840-ABL16175) and the encoded proteins
 CC (ABB57737-ABB72072).
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 XX Sequence 3965 BP; 1088 A; 946 C; 979 G; 952 T; 0 other;
 SQ
 Query Match 5.9%; Score 108.8; DB 23; Length 3965;
 Best Local Similarity 48.0%; Pred. No. 2.7e-20;
 Matches 462; Conservative 0; Mismatches 467; Indels 33; Gaps 4;
 Qy 493 GAAACAATATGACGTAAGATTTCTTGAATTAAGCCGAGATATCTTATAGTTGTGCG 552
 Db 1425 GAAGACTCCGAGGCGAGGACGAGTATCAAGCCAGACCACTTCTTATGAGGAT 1484
 Qy 553 CGAGCTGACAGAGACGAGTGCATTTAGAGTGCATTTATATCAAGAAAGACTCT 612
 Db 1485 CAGCTTCAAGACGACGCGCTTCATGAGGTGTGGTTTCAACGAGAGGAGGCT 1544
 Qy 613 TTTATGTACACCATGATTAATCTTGTCTGATATCTCTGAGTGTGGAATGCTGAAT 672
 Db 1545 CTCTACACCCACGACGATTTCTGTGCAAGCTTCTCTGTGATCGATGATGATGAT 1604
 Qy 673 TTTGATCTTACGCCAGATGATTTCTTCTGAAATTTACATTTCTGTAGAAAACATGCCCT 732
 Db 1605 CACGACGCGGGCAGCGAAAA---GGCGGCAACATGTGCGCATCGGCTGATGATCCG 1661
 Qy 733 GTTATTGAAGTGTGGAGCTTGTATATAGTGAATCTTTAAGCCAGTCTTCACTCGGA 792
 Db 1662 ATATACAGCTGTGGATCTTACATACAGAGCGCTATGAGGCCCATTTAAGCTGGGT 1721
 Qy 793 AGTAACTTTCAAAAAGAAAAGAAAAGAAAAGAAAGAGTCTCTACAGAGAGGCAT 852
 Db 1722 TCCAAAGGACCGGAGAGCAAAAGAA-----GCAATATGACAC 1763
 Qy 853 ACCGATGCTGTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 912
 Db 1764 AAGGACGCGCTGTGATCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1823
 Qy 913 TCAGCTGACAACTGTATTTCTGTGGGATATGTCTTGGGAAACGAGACGTAAGCTTC 972
 Db 1824 TCCGTGGACCAACTGTGATTTCTGTGGGATGATGACGAGGGCCAGCTCTATCAACCAT 1883

QY 973 GCTGTACACAGACAGAGTCCAAAGCTGAGTTTCATTCATTGAAGACAGACTCTG 1032
 CC
 Db 1884 ACCGCTTTGGCAAAACAGATTGAGTCGCTGGAAATTCCTCCGCAAGAGCTCAAGCAT 1943
 CC
 QY 1033 ATTTCGTGCTATATGATTAAGTCAGTGGCTTTGATGATCGCCGAAGCTCAGATGAAGC 1092
 CC
 Db 1944 CTTACCGGCTGTGCCGATGATACGTGCACTCTTCGATTCGCCGACGCTGAGGGCGTC 2003
 CC
 QY 1093 CA-----TCGAATGTGGCGATTCACTGAGGAGATGAGAGATGACTTGGAAATCAG 1143
 CC
 Db 2004 AACTGTCACAGATTGAGTGAAGTTACGCTGAAGAGGAAAGTCTCTGGGATCCC 2063
 CC
 QY 1144 TTTTACCTGTCTATTTCTTGGCCAGTACAGATGACGCTTTGATATATTTGGATGCA 1203
 CC
 Db 2064 ACACAGACCGACTACTTCATGCTGGGACCAACGATGGCACCCTTGATACGCCGACAAA 2123
 CC
 QY 1204 CGTTC---AGATAAGCCAAATTTTACATTAATGACACAAATGAAATCTGTGCTT 1260
 CC
 Db 2124 CGTTCCTGGAACAAGCTGTGTGTCGTAAGGCCCAACAGAGAAATCTCCGGTGTG 2183
 CC
 QY 1261 GATCTTAGCACTCAATCAAGGGCTGTCTCGTGAAGCTTGAAGTACGATGAG 1320
 CC
 Db 2184 TGCTTCAACAAACAGAACCTTAATCTGTAACCTTCACTCAGAGGAGGACCCCTAAG 2243
 CC
 QY 1321 ATCTGGAGCATCTTAGAGATAGGCCAAAGTCTAATTTCTAGGAGACATGAATGGGA 1380
 CC
 Db 2244 GTGTGAACCTTGAATGACAGAGGCAAGCAAGCTTACGAGCAAGATTCACATGGGT 2303
 CC
 QY 1381 GTTCTCTTCTGTTCTTCAATGTTGCCCTGATTTGCCATTTATTTAGCTTTGGAGGTCA 1440
 CC
 Db 2304 CGCTTGACGTCAATGCGCCAGTGTCCCGAGGATCCCTACACCTTGCCCTTGCCGAGAG 2363
 CC
 QY 1441 AA 1442
 CC
 Db 2364 AA 2365
 CC
 RESULT 11
 ABL13260
 ID ABL13260 standard; cDNA; 4826 BP.
 AC ABL13260;
 XX
 XX 26-MAR-2002 (first entry)
 XX
 DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 34262.
 XX
 KW Drosophila; developmental biology; cell signalling; insecticide;
 KW pharmaceutical; gene; ss.
 XX
 OS Drosophila melanogaster.
 XX
 PN WO200171042-A2.
 XX
 PD 27-SEP-2001.
 XX
 PF 23-MAR-2001; 2001WO-US09231.
 XX
 PR 23-MAR-2000; 2000US-191637P.
 XX
 PR 11-JUL-2000; 2000US-0614150.
 XX
 PA (PEKE) PE CORP NY.
 XX
 PI Venter JC, Adams M, Li PWD, Myers EW;
 XX
 DR WPI; 2001-656860/75.
 XX
 DR P-PSDB; ABB69157.
 XX
 PT New isolated nucleic acid detection reagent for detecting 1000 or more
 PT genes from Drosophila and for elucidating cell signalling and cell-cell
 PT interactions -
 XX
 PS Claim 1; SEQ ID NO 34262; 21pp + Sequence Listing; English.

XX
 CC The invention relates to an isolated nucleic acid detection reagent
 CC capable of detecting 1000 or more genes from Drosophila. The invention is
 CC useful in developmental biology and in elucidating cell signalling and
 CC cell-cell interactions in higher eukaryotes for the development of
 CC insecticides, therapeutics and pharmaceutical drugs. The invention
 CC discloses genomic DNA sequences (AB16175-AB130511), expressed DNA
 CC sequences (AB101840-AB16175) and the encoded proteins
 CC (AB161737-AB172072).
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 4826 BP; 1258 A; 1202 C; 1196 G; 1170 T; 0 other;
 Query Match 5.9%; Score 108.8; DB 23; length 4826;
 Best Local Similarity 48.0%; Pred. No. 3.1e-20;
 Matches 462; Conservative 0; Mismatches 467; Indels 33; Gaps 4;
 QY 493 GAACAAATATGAACCTGAAATTTCTTATTAAGCCCAAGTATATCTTATAGTTTGGC 552
 Db 369 GAAAGACTCCGAGCGGAGGAGAGAGTATCAAGCCGACAACTCATTTAGTGGT 428
 QY 553 CGAGCTGAACAGACGACAGTGAATTTAGAGGTGATGTTATATGAAGAAAGACTCT 612
 Db 429 CAGCTTCAAGACGAGCGCCCTCCATGAGGTGAGTGTTCACAGAGAGAGAGGCT 488
 QY 613 TTTATGATACACATGATATATCTTGTCTGATATCTCTGAGTGTGAATGGCTGAAT 672
 Db 489 CTTCACACCAACAGACGACTTCTGCTGCAAGCTTCTCTGTCATCAGATGATGAAT 548
 QY 673 TTTGATCTTGAAGCCAGATGATTTCTACTGAAATTAATCACTGTGTGAGAAACATGACCCCT 732
 Db 549 CACGACCGGGGCAAGCAAGAA---GGCGGCAACATGTGCCCATCGGCTCATGATGATCG 605
 QY 733 GTTATGAAGTGGGAGCTTATATATGAGTGAAGTCTTGAAGCCAGCTTCAACTGCA 792
 Db 606 ATTAATCAAGTCTGGATCTGATATCAAGATCAGAGCCCTTCAAGCCCATTTAGTGGT 665
 QY 793 AGTAACCTTTCAAAAAAGAGAAAAAGAAAGAAAGATTCCTGACGAAAGGCGAT 852
 Db 666 TCCAAAGGACGCGGAGAGCAAGAACAAAG-----GCATATGAGACAC 707
 QY 853 ACCGATGCTGTCTTGAACCTTTCATGATATGATATCAAGAAATGTTTATGCAAGTGA 912
 Db 708 AAGAGCGCGGTGATGATCTCTTGGAAACCAACTTGAAGCAATTTGGCCAGGGGG 767
 QY 913 TCAGCTGACAACTGTAATCTGTGGGATATGTCCTTGGGAAACAGCAGTAGCTCCTC 972
 Db 768 TCGGTGACCAACTGTGATTTCTGTGGACATGACAGAGGCGACCTCATACAACTAT 827
 QY 973 GCTGTACACAGACAGAGTCCAAACACTGCAAGTTTCATTCATTTGAAGCAGACTCTG 1032
 Db 828 ACGGCTTTGGCAAAACAGATTCACTCGTGAATTCATCCGCAAGAGGCTCAAGCAT 887
 QY 1033 ATTTCGTGCTATATGATTAAGTCACTGCTTTGATGATCGCCGAAGTCCAGATGAAGC 1092
 Db 888 CTTACCGGCTGTGCCGATGATACGTGCACTTTCGATTTGCCGACGCTGAGAGGGCGTC 947
 QY 1093 CA-----TCGAATGTGGCGATTCACTGAGGAGATGAGAGAGTACTTGAATCAC 1143
 Db 948 AACTGTCACAGATTGAGTGAAGTTGACGCTGAAGTGAAGAGTCTGTGGCATCC 1007
 QY 1144 TTTTACCTGTCTATTTCTTGGCCAGTACAGATGACGCTTTGATATATTTGGATGCA 1203
 Db 1008 ACACAGACCGACTACTTCATGCTGGGACCAACAGATGACCTTGATTAAGCCGACAAA 1067
 QY 1204 CGTTC---AGATAAGCCAAATTTTACATTAATGACCAACATGATGAAATCTGTGCTT 1260
 Db 1068 CGTTCCTGGAACAAGCTGTGTGTCGTAAGGCCCAACAGAGAAATCTCCGGTGTG 1127
 QY 1261 GATCTTAGCACTCAATCAAGGGCTGTCTCGTGAAGTCTTCACTGACGTAATATAGTGAAG 1320

Db 1128 TGCTTCAACAACGAAGCCTTAATCTGCTACCTCCACCTCCAGGAGGCCCTTAAG 1187
QY 1321 ATCTGGACATCTTAGAGATAGGCCAAGTCTAGTTCATTCTAGGACATGAATGGGA 1380
Db 1188 GTGTGGAACCTTATGCGACAGAGCAAGACGCTACAGACGACGATTCACATGGGT 1247
QY 1381 GTTCTCTCTGTTCTTTCATGTCCTGATTCGTCATTATTATGCTTGGAGTCAA 1440
Db 1248 CGCTTGACATGATGCGCCAGTCCCGAGAGTCCCTACACCTCGCCTTCGCGGAGAG 1307
QY 1441 AA 1442
Db 1308 AA 1309

RESULT 12
AAC51036
ID AAC51036 standard; DNA; 1566 BP.
XX
AC AAC51036;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 67037.
XX
KW Hybridization assay; genetic mapping; gene expression control;
KM protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.

PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140981.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144684.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.

[illegible]

XX	Dmanac RT,	Liu C,	Tang YT;
PI	WPI; 2001-639362/73.		
DR	P-PEDB; ABG06678.		
XX			
XX	New isolated polynucleotide and encoded peptides, useful in		
PT	diagnostics, forensics, gene mapping, identification of mutations		
PT	responsible for genetic disorders or other traits and to assess		
PS	biodiversity -		
XX	Claim 1; SEQ ID No 6669; 103pp; English.		
XX			
CC	The invention relates to isolated polynucleotide (I) and		
CC	polypeptide (II) sequences. (I) is useful as hybridization probes,		
CC	polymerase chain reaction (PCR) primers, oligomers, and for chromosome		
CC	and gene mapping, and in recombinant production of (II). The		
CC	polynucleotides are also used in diagnostics as expressed sequence tags		
CC	for identifying expressed genes. (I) is useful in gene therapy techniques		
CC	to restore normal activity of (II) or to treat disease states involving		
CC	(II). (II) is useful for generating antibodies against it, detecting or		
CC	quantitating a polypeptide in tissue, as molecular weight markers and as		
CC	a food supplement. (II) and its binding partners are useful in medical		
CC	imaging of sites expressing (II). (I) and (II) are useful for treating		
CC	disorders involving aberrant protein expression or biological activity.		
CC	The polypeptide and polynucleotide sequences have applications in		
CC	diagnostics, forensics, gene mapping, identification of mutations		
CC	responsible for genetic disorders or other traits to assess biodiversity		
CC	and to produce other types of data and products dependent on DNA and		
CC	amino acid sequences. AAS64197-AAS94564 represent novel human		
CC	diagnostic coding sequences of the invention.		
CC	Note: The sequence data for this patent did not appear in the printed		
CC	specification, but was obtained in electronic format directly from WIPO		
CC	at ftp.wipo.int/pub/published_pct_sequences.		
SQ			
SQ	Sequence 261 BP; 63 A; 73 C; 75 G; 50 T; 0 other;		
	Query Match	4.0%; Score 74; DB 23; Length 261;	
	Best Local Similarity	100.0%; Pred. No. 6.2e-11;	
	Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
OY	88 ATGAACCGCAGCCGCCAGGTGACGTGGCTGGCTTGCCTGGCGGTGGCCAAAGAG 147		
DB	1 ATGAACCGCAGCCGCCAGGTGACGTGGCTGGCTTGCCTGGCGGTGGCCAAAGAG 60		
OY	148 ACACCAGCAAGCT 161		
DB	61 ACACCAGCAAGCT 74		
RESULT 15			
ABV17865			
ID	ABV17865 standard; cDNA; 211 BP.		
XX	ABV17865;		
XX			
DT	13-SEP-2002 (first entry)		
DE	Human prostate expression marker cDNA 17856.		
KX	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;		
KM	pharmacogenomic marker; gene; ss.		
OS	Homo sapiens.		
XX			
PN	WO200160860-A2.		
PD	23-AUG-2001.		
PF	20-FEB-2001; 2001WO-US05171.		
PR	17-FEB-2000; 2000US-183319P.		
PR	16-MAR-2000; 2000US-189862P.		

PR 25-MAY-2000; 2000US-207454P.
 PR 09-JUN-2000; 2000US-211314P.
 PR 18-JUL-2000; 2000US-219007P.
 PR 13-DEC-2000; 2000US-255281P.

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

PI Schlegel R, Endege WO, Monahan JE;

DR WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer, useful
 PT for detecting presence of prostate cancer, stage of prostate cancer -

XX Claim 1; Page 2951; 11750pp; English.

CC The invention relates to an isolated nucleic acid molecule (I) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
 CC specification or its complement. (I) is useful for:

CC (a) assessing whether a patient is afflicted with prostate cancer;

CC (b) monitoring the progression of prostate cancer in a patient;

CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;

CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;

CC (e) selecting a composition for inhibiting prostate cancer in a patient;

CC (f) assessing the prostate cell carcinogenic potential of a compound;

CC (g) determining whether prostate cancer has metastasized in a patient;

CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient;

CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.

XX

SQ Sequence 211 BP; 74 A; 41 C; 40 G; 44 T; 12 other;

Query Match 3.8%; Score 69.6; DB 23; Length 211;

Best Local Similarity 84.8%; Pred. No. 1e-09;

Matches 78; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

OY 805 AAAAAGAAAGAAAGAAAGAAAGAGTCTCTCAGAGAAAGGCGATACGATGCTGTC 864

DB 112 AAAAATTAATTAAACATTTTACAGAGTCTCTCAGAGAAAGGCGATACGATGCTGTC 171

OY 865 CTTGACCTTTCATGGAATAGCTAATCAGAA 896

DB 172 CTTGACCTTTCATGGAATAGCTAATCAGAA 203

Search completed: March 18, 2003, 22:32:43
 Job time : 896 secs

GenCore version 5.1.4_p5 4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 18, 2003, 19:24:19 ; Search time 9898 Seconds
(without alignments)
3031.950 Million cell updates/sec

Title: US-09-315-355A-47
Perfect score: 1853
Sequence: 1 gatccctgagcgtcgtgcag.....aaagtaattcctaacaat 1853

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues
Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_inv:*
20: em_gss_pln:*
21: em_gss_vrt:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1148.6	62.0	2539	11 AK009972	AK009972 Mus muscu
2	966.6	52.2	1040	9 AL515984	AL515984 AL515984
3	953.4	51.3	995	9 AL561661	AL561661 AL561661
4	950.6	51.5	1052	9 AL582812	AL582812 AL582812
5	938	50.6	983	9 AL515985	AL515985 AL515985
6	932	50.3	1073	13 BM547947	BM547947 AGENCOURT

Result	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	MEDLINE	PUBMED
1	AK009972	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058a11:homolog to PERIODIC TRYPTOPHAN PROTEIN 1 HOMOLOG (KERATINOCYTE PROTEIN IEF SSP 9502), full insert sequence.	AK009972	AK009972.1	GI:12845101	HTC; CAP trapper.	Mus musculus	1	Carninci, P. and Hayashizaki, Y.	High-efficiency full-length cDNA cloning	Genome Res. 10 (10), 1617-1630 (2000)	2049374	11042159
2	AL549213	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058a11:homolog to PERIODIC TRYPTOPHAN PROTEIN 1 HOMOLOG (KERATINOCYTE PROTEIN IEF SSP 9502), full insert sequence.	AL549213	AL549213.1	GI:12845101	HTC; CAP trapper.	Mus musculus	2	Carninci, P. and Hayashizaki, Y.	High-efficiency full-length cDNA cloning	Genome Res. 10 (10), 1617-1630 (2000)	2049374	11042159
3	AL561661	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058a11:homolog to PERIODIC TRYPTOPHAN PROTEIN 1 HOMOLOG (KERATINOCYTE PROTEIN IEF SSP 9502), full insert sequence.	AL561661	AL561661.1	GI:12845101	HTC; CAP trapper.	Mus musculus	3	Carninci, P. and Hayashizaki, Y.	High-efficiency full-length cDNA cloning	Genome Res. 10 (10), 1617-1630 (2000)	2049374	11042159
4	AL582812	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058a11:homolog to PERIODIC TRYPTOPHAN PROTEIN 1 HOMOLOG (KERATINOCYTE PROTEIN IEF SSP 9502), full insert sequence.	AL582812	AL582812.1	GI:12845101	HTC; CAP trapper.	Mus musculus	4	Carninci, P. and Hayashizaki, Y.	High-efficiency full-length cDNA cloning	Genome Res. 10 (10), 1617-1630 (2000)	2049374	11042159
5	AL515985	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058a11:homolog to PERIODIC TRYPTOPHAN PROTEIN 1 HOMOLOG (KERATINOCYTE PROTEIN IEF SSP 9502), full insert sequence.	AL515985	AL515985.1	GI:12845101	HTC; CAP trapper.	Mus musculus	5	Carninci, P. and Hayashizaki, Y.	High-efficiency full-length cDNA cloning	Genome Res. 10 (10), 1617-1630 (2000)	2049374	11042159
6	BM547947	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058a11:homolog to PERIODIC TRYPTOPHAN PROTEIN 1 HOMOLOG (KERATINOCYTE PROTEIN IEF SSP 9502), full insert sequence.	BM547947	BM547947.1	GI:12845101	HTC; CAP trapper.	Mus musculus	6	Carninci, P. and Hayashizaki, Y.	High-efficiency full-length cDNA cloning	Genome Res. 10 (10), 1617-1630 (2000)	2049374	11042159

ALIGNMENTS

RESULT 1
LOCUS AK009972 2539 bp mRNA linear HTC 19-JUN-2002
DEFINITION Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310058a11:homolog to PERIODIC TRYPTOPHAN PROTEIN 1 HOMOLOG (KERATINOCYTE PROTEIN IEF SSP 9502), full insert sequence.
ACCESSION AK009972
VERSION AK009972.1 GI:12845101
KEYWORDS HTC; CAP trapper.
SOURCE Mus musculus (strain: C57BL/6J) adult male tongue cDNA to mRNA, clone lib:RIKEN full-length enriched mouse cDNA library
clone:2310058a11.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
PUBMED 99279253
MEDLINE 10349636
AUTHORS Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
JOURNAL MEDLINE 2049374
PUBMED 11042159


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Db 427 TCTTAGGCTATGCGAGTATGACCGAGATGCAATGTCACCTTGAAAGACGGAACA 486
Qy 498 ATATGAACGTAAGATTCTTGTGTAAGCCAGATATCTTAATAGTTGTGGCCGAG 557
Db 487 ATATGACATGAAGATTCTTGTGTAAGCCAGATGACACCTCATCTGTGTGGCCGTC 546
Qy 558 TGAACAGACCAAGTGCATTTAGAGTGATGCTTTATTAATCAAGAAAGACCTTTTAA 617
Db 547 TGAACAGACCAAGTGCATTTAGAGTGATGCTTTATTAATCAAGAAAGAGTCTTTCTA 606
Qy 618 TGTACACCATGATATCTTGTCTGATATCCTCTGAGTGTGGAATGGCTGAATTTTGA 677
Db 607 CGTCCACCATGATATCTTGTCTGATATCCTCTGAGTGTGGAATGGCTGAATTTTGA 666
Qy 678 TCTTAGCCCAAGATGATCTGCTGAAATTAATGCTGTGGAAGAACGTCACCTGTAT 737
Db 667 TCTTAGCCCAAGATGATCTGCTGAAATTAATGCTGTGGAAGAACGTCACCTGTAT 726
Qy 738 TGAAGTGTGGACCTTGATATAGTGAAGCTTTAGAGCCAGTCTTCACTCGGAATTA 797
Db 727 CGAGTATGGAAGCTTGATATAGTGAAGCTTTAGAGCCAGTCTTCACTCGGAATTA 786
Qy 798 ACTTTCAAAAAGAGAAAAAGAAAGAAAGAGTTCTTCAAGCAGAGGGCATACCA 857
Db 787 GCTTCCAAAAAGAGAAAGAAAGAAAGAGAGTCTTCAAGCAGAGGATCTCTGA 846
Qy 858 TGTGTCTCTGACCTTTCATGGAATTAAGCTATCAAGAAAGCTTTAGCACTGATAGC 917
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Qy 918 TGAACAACACTGTAATCTGTGGAGATATGCTTGTGGGAAACAGCAGCTGCTGCTG 977
Db 907 AGACAGACCTGTATGCTTGTGGAGATCTGTGTGGGAAAGTCAAGTCACTGATCTGC 966
Qy 978 ACAACAGACAGAGGCTCCAAACACTGCAAGTTTCATTCATTTGAAGCAGACCTGATTC 1037
Db 967 ACATACAGACAGAGGCTCCAAACACTGCAAGTTTCATTCATTTGAAGCAGACCTGATTC 1026
Qy 1038 TGGCTCATATGATTAAGTCAAGTGTGCTTGTATGATGCTGCCGAAGTCCAGATGAAGCCATCG 1097
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Qy 1098 AATGTGACCATTAAGTGTGGAGATAGAGAGAGTGAAGTCACTTTTCACTGTCTCA 1157
Db 1087 CAGTGTGCGGTATGATGTGGAGATCGAGAGATGATCGAGACCACTTCTCACCGGTCTCA 1146
Qy 1158 TTTCTTGGCCAGTACAGATGACGCTTTGTATATTAATTTGATGACAGTTCAAGTAAGCC 1217
Db 1147 TTTCTTGGCCAGTACAGATGATGCTTTGTCTATTAACCTGATGACAGTTCAAGTAAGCC 1206
Qy 1218 AATTTTACCTTAATGACACAAATGTAATCTCTGTGCTTGTATTTGACAGTCAAT 1277
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Qy 1278 CAGAGGCTGTCTGTGATGCTTCAAGTGAACAATAGTGAAGTCTGGAGCATCTTAGG 1337
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Db 1387 CTGCTGTCTGCTGATTTGCTGATTTATGCTTGTGAGGCTCAAAAAGAGGCTTGGGT 1446
Qy 1458 CTGGATATTAAGCAGTCTCTCAGTAATTAAGCATTTGGAAGAGAGAGGCTTGT 1517
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Qy 1518 TCTTGGAGTGAAGAAATTCATCTATTAAGTGGCCCTTTTGGCAGCAGAGCTCA--GA 1574

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Db 1507 TATAGGGGCGACGAAGGTTTATCTGTAGCGGCCCTGTGGAGCAGAGTCCACAGCA 1566
Qy 1575 TACCCCATGAGTCTTAATGAAGATCA--TCTAATTTCTGCTTACTTAAGTGGAAAT 1633
Db 1567 GACACCAATGAGTCTTGCACAAAGATCAGTTTCTGCTGTGCTTACTTAAGTCCG--TT 1624
Qy 1634 TTAAGAAAGTGGCTTAAGAAATGTTTC 1658
Db 1625 TCAAAAGACTGGCTTAAGAAATGTTTC 1649

RESULT 2
AL515984/c 1040 bp mRNA linear EST 13-FEB-2001
LOCUS AL515984 LTI_NFL011_NBC1 Homo sapiens cDNA clone CS0DA001YJ04 3
DEFINITION prime, mRNA sequence.
ACCESSION AL515984
VERSION AL515984.1 GI:12779477
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1040)
AUTHORS Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: segref@genoscope.cns.fr, Web : www.genoscope.cns.fr.

FEATURES
source
1..1040
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="CS0DA001YJ04"
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/sex="male"
/tissue_type="neuroblastoma cells"
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/note="Organ: Brain; Vector: pCMVSPORT 6; 1st strand cDNA
was primed with a NotI-oligo(dT) primer. Five prime end
enriched, double-stranded cDNA was digested with Not I and
cloned into the Not I and Eco RV sites of the pCMVSPORT 6
vector. Library is not normalized, but is the control for
the normalized libraries. Library was constructed by Life
Technologies. Contact : Feng Liang Life Technologies, a
division of Invitrogen 9800 Medical Center Drive Rockville
, Maryland 20850, USA Fax : (1) 301 610 8371 Email :
fliang@lifetech.com URL :
http://fulllength.invitrogen.com"

BASE COUNT 298 a 230 c 206 g 303 t 3 others
ORIGIN

Query Match 52.2%; Score 966.6; DB 9; Length 1040;
Best local similarity 98.1%; Pred. No. 9, 8e-222;
Matches 998; Conservative 1; Mismatches 16; Indels 2; Gaps 2;

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 QY 804 AAAAAAGAGAAAAAGAGAAAAAGAGTCTCTCAGCAAGAGGCGATCCGATGCTGT 863
 DB 781 AAAAAAGAGAAAAAGAGAAAAAGAGTCTCTCAGCAAGAGGCGATCCGATGCTGT 840
 QY 864 CCTTGACCTTTCATGGAATAGCTAATCAGAAATGTTTTCAGAGTGCATCAGCTGCA 923
 DB 841 CCTTGACCTTTCATGGAATAGCTAATCAGAAATGTTTTCAGAGTGCATCAGCTGCA 900
 QY 924 CACTGAATTCCTGTGGGATATGTCCTTGGGAAACAGACAGTACCTCGCTGACAC 983
 DB 901 CACTGAATTCCTGTGGGATATGTCCTTGGGAAACAGACAGTACCTCGCTGACAC 958
 QY 984 AGACAGGTCGCAACACCTGCACTTCATCCATT 1016
 DB 959 AGAC-ARGTCCAAACACTGCACTTCATCATTT 990

RESULT 4
 AL582812/c 1052 bp mRNA linear EST 16-FEB-2001
 LOCUS AL582812 LTI_NFL010_BC2 Homo sapiens cDNA clone CSDDL008YK21 3
 DEFINITION prime, mRNA sequence.
 ACCESSION AL582812
 VERSION AL582812.1 GI:12951167
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (baes 1 to 1052)
 Li, W.B., Gruber, C., Jessee, J. and Polyes, D.
 Full-length cDNA libraries and normalization
 Unpublished (2001)
 JOURNAL
 COMMENT
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 Evry cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr.

FEATURES
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 /sex="male"
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 /note="Vector: pCMVSPORT 6; Site 1: NotI; 1st strand cDNA
 was primed with a NotI-oligo(dT) primer. Five prime end
 enriched, double-stranded cDNA was digested with Not I and
 cloned into the Not I and Eco RV sites of the pCMVSPORT 6
 vector. Library was normalized. Library was constructed by
 life Technologies. Contact : Feng Liang life Technologies,
 a division of Invitrogen 9800 Medical Center Drive
 Rockville, Maryland 20850, USA Fax : (1) 301 610 8371
 Email : Eliang@lifestech.com URL :
 http://fulllength.invitrogen.com"

BASE COUNT 279 a 237 c 205 g 303 t 28 others
 ORIGIN

Query Match 51.3%; Score 950.6; DB 9; Length 1052;
 Best Local Similarity 95.7%; Pred. No. 6.9e-218;
 Matches 1004; Conservative 23; Mismatches 16; Indels 6; Gaps 5;

QY 747 GGAACCTTGATATAGTGACTCTTTAGACCAAGTCTTCACACTCGGAAGTAACTTTC 806
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 QY 807 AAAAAAGAGAAAAAGAGAAAAAGAGTCTCTCAGCAAGAGGCGATCCGATGCTGTCT 866

DB 988 AAAAAAGAGAAAAAGAGAAAAAGAGTCTTCACAGAA-GGCATACCGATGCTGCT 930
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 DB 929 TGACCTTTCATGGAATAGCTAATCAGAAATGTTTTCAGAGTGCATCAGCTGCAAC 870
 QY 927 TGTAAATTCCTGTGGGATATGTCCTTGGGAAACAGACAGTACGCTGCTGTACACAGA 986
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 QY 987 CAGAGTCCAAACCTGAGTTCATCCATTTTGAAGCAGACCTCTGATTTTCGCTCAT 1046
 DB 810 CAGAGTCCAAACCTGAGTTCATCCATTTTGAAGCAGACCTCTGATTTTCGCTCAT 751
 QY 1047 TGATTAAGTCAGTGGCTTTGATGACTGCGAAGTCCAGATGAAGCCATGGAATG 1106
 DB 750 TGATTAAGTCAGTGGCTTTGATGACTGCGAAGTCCAGATGAAGCCATGGAATG 651
 QY 1107 ATTCAAGTGGCAGATAGAGAGAGTGAATCACTTTTCACTTTGCTTTTGGC 1166
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 DB 510 TCTCGTGAAGTCTTTCAGCTGACCAATACGTAAGATCTGGGACATCTTAGAGATAG 451
 QY 1347 AAGCTTAAGTCAATCTTACGAGCACTGAATAATGGAAGTCTTCTGTTCTTCAAGT 1406
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 DB 270 TCGAAGAAATTCATCTATTAAGTGGCCCTTTTGGCAGAGAGCTCAGATACCCATG 211
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 DB 210 GTCTTAATGAAGTCAATCTAATTTCTGCTTACCTTAACCTGGGAATTTTAAAGTTGG 151
 QY 1647 CTAAATATGTTCCATGCGTGGCAGCAACATGCAAGTGAAGTCAAAACATTCATTTCT 1706
 DB 150 CTAAATATGTTCCATGCGTGGCAGCAACATGCAAGTGAAGTCAAAACATTCATTTCT 91
 QY 1707 GACTGA-CATTCCTTTTGTGCACTGCGGTGGCAGCAACATATCCGGTCTTTGTGCTTC 1765
 DB 90 GACTGA-CATTCCTTTTGTGCACTGCGGTGGCAGCAACATATCCGGTCTTTGTGCTTC 31
 QY 1766 TCTTCA--GATGATGTTTGTAAAGCTC 1792
 DB 30 TCTTCA-CGATGATGTTTGTAAAGCTC 2

RESULT 5
 AL515985 983 bp mRNA linear EST 13-FEB-2001
 LOCUS AL515985 LTI_NFL011_NBC1 Homo sapiens cDNA clone CSDDA001YJ04 5
 DEFINITION prime, mRNA sequence.
 ACCESSION AL515985

VERSION AL515985.1 GI:12779478
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 REFERENCE 1 (bases 1 to 983)
 AUTHORS Li, W.-B., Gruber, C., Jesse, J., and Polayes, D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished (2001)
 COMMENT Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 Evry cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr.

FEATURES

source

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 /sex="male"
 /tissue_type="neuroblastoma cells"
 /lab_host="DH108"
 /note="Organ: brain; Vector: pCMVSPORT 6; 1st strand cDNA was primed with a NotI-oligo (GT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and cloned into the Not I and Eco RV sites of the pCMVSPORT 6 vector. Library is not normalized, but is the control for the normalized libraries. Library was constructed by Life Technologies. Contact : Feng Liang Life Technologies, a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371 Email : fliang@life.com URL : http://fulllength.invitrogen.com"

BASE COUNT 284 a 203 c 258 g 233 t 5 others
 ORIGIN

Query Match 50.6%; Score 938; DB 9; Length 983;
 Best Local Similarity 99.4%; Pred. No. 7,4e-215;
 Matches 934; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

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 QY 79 TTGAGACCATGAACCGCAGCGCCAGGTGACGTGCTGGCTCGCTGCGCGCTG 138
 DB 61 TTGAGACCATGAACCGCAGCGCCAGGTGACGTGCTGGCTCGCTGCGCGCTG 120
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 DB 241 CCTTCAGAAATGGCATCAGAGTGCAGCGACCGCAGCGCCCAAGAGAGCCCTTGAG 300
 QY 319 GATGATGACCCAGAGATGACAGAGCGTTGATGATGAGAGCTGAGTACAGACTTA 378
 DB 301 GATGATGACCCAGAGATGACAGAGCGTTGATGATGAGAGCTGAGTACAGACTTA 360
 QY 379 GATAAATATGATGAGAGAGTGACCCAGATGCTGACTCTTGCTGAATCTCTTGGGT 438
 DB 361 GATAAATATGATGAGAGAGTGACCCAGATGCTGACTCTTGCTGAATCTCTTGGGT 420
 QY 439 CTTACGGCTACGGGAGTAATGATCAAGATCCTTACGTTACTCTGAAGATACAGACAA 498
 DB 421 CTTACGGCTACGGGAGTAATGATCAAGATCCTTACGTTACTCTGAAGATACAGACAA 480

QY 499 TATGAACGTGAAGATTTCTTGATTAAGCCAGATGATATCTTATGTTGTGGCCGAGCT 558
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 QY 739 GAAGTGTGACCTTGATATAGTGAACCTTTAGAGCAGCTTTCACACTCGGAGTAA 798
 DB 721 GAAGTGTGACCTTGATATAGTGAACCTTTAGAGCAGCTTTCACACTCGGAGTAA 780
 QY 799 CTTTCAAAAAAGAAAAAGAAAAAGAAAGAGTTCTTCAGCAGAAAGGCATACCGAT 858
 DB 781 CTTTCAAAAAAGAAAAAGAAAAAGAAAGAGTTCTTCAGCAGAAAGGCATACCGAT 840
 QY 859 GCTGTCTTGAACCTTTATAGTAATTAACCTAATCAGAAATGTTTACAGATGATCAGT 918
 DB 841 GCTGTCTTGAACCTTTATAGTAATTAACCTAATCAGAAATGTTTACAGATGATCAGT 900
 QY 919 GACACACCTGAATTTCTGTGGATATGCTCTTGGGGAAC 958
 DB 901 GACACACCTGAATTTCTGTGGATATGCTCTTGGGGAAC 940

RESULT 6
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 LOCUS
 DEFINITION AGENCOURT_6531563 NIH_MGC_124 Homo sapiens cDNA clone IMAGE:5732716
 ACCESSION BMS47947
 VERSION BMS47947.1 GI:18782142
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 1 (bases 1 to 1073)
 AUTHORS NIH-MGC http://mgs.nci.nih.gov/
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
 COMMENT Unpublished (1999)
 Contact: Robert Straubeberg, Ph.D.
 Email: ega@bms-femail.nih.gov
 Tissue Procurement: Invitrogen
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
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 High quality sequence start: 109
 High quality sequence stop: 739.
 Location/Qualifiers

FEATURES

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 /lab_host="DH108"
 /note="Organ: brain; Vector: pCMV-SPORT6; Site 1: EcoRV (destroyed); Site 2: NotI; RNA source male hippocampus, age 27. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average


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Db 241 AGGAMAGGAGCTCTTCAGAGATGCGATGACAGTGCACGCCAGCCAGCCCA 300
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Qy 365 CTGAGTACGATTAATATATATATATATATATATATATATATATATATATAT 424
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Qy 425 AATCTCTCTGGGCTCTTACCGGTCTTACCGGATATATATATATATATATAT 484
Db 421 AATCTCTCTGGGCTCTTACCGGTCTTACCGGATATATATATATATATATAT 480
Qy 485 AAGATACGAGCAATATATATATATATATATATATATATATATATATATAT 544
Db 481 AAGATACGAGCAATATATATATATATATATATATATATATATATATATAT 540
Qy 545 TTGTGGCCGAGCTGAGCAGGACCGATTTAGAGTGCATGTTATATATATAT 604
Db 541 TTGTGGCCGAGCTGAGCAGGACCGATTTAGAGTGCATGTTATATATATAT 600
Qy 605 AAGACTCTTTTATATATATATATATATATATATATATATATATATATAT 664
Db 601 AAGACTCTTTTATATATATATATATATATATATATATATATATATATAT 660
Qy 665 GGCTGAATTTTATATATATATATATATATATATATATATATATATATAT 724
Db 661 GGCTGAATTTTATATATATATATATATATATATATATATATATATATAT 720
Qy 725 TGACCCCTGTTATATATATATATATATATATATATATATATATATATAT 784
Db 721 TGACCCCTGTTATATATATATATATATATATATATATATATATATATAT 780
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Db 781 CACTCGGAATTAATTTTCAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
Qy 845 AAGGCAATACGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 904
Db 841 AAGGCAATACGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 899
Qy 905 CAAGTCATCAGCTGACAAACCTGTAATCTGTGGATATGTC 947
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RESULT 8
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LOCUS AGNCOURT 7594492 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6061590
DEFINITION 5' mRNA sequence.
ACCESSION BQ228676
VERSION BQ228676.1 GI:20410076
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 906)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: rstraus@nih.gov
Tissue Procurement: ATCC/DCTD/DTF
CDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
http://image.llnl.gov
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  Average insert size 2 kb. Library constructed by Life
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BASE COUNT          267 a 175 c 203 g 261 t
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Query Match          48.9%; Score 906; DB 14; Length 906;
Best Local Similarity 100.0%; Pred. No. 3.6e-207;
Matches 906; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 417 TCTTGTAATCTCTCTGCGCTTACGGTCTACGGAGTAATGATCAAGTCTTA 476
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Qy 477 TACTGTAAAGATACAAATATATATATATATATATATATATATATATAT 536
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Qy 537 TCTTATATGTTTGTGGCCGAGCTGAAACAGACAGTGCATTTAGAGGTGAT 596
Db 121 TCTTATATGTTTGTGGCCGAGCTGAAACAGACAGTGCATTTAGAGGTGAT 180
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Qy 717 AGAAATACATGACCCCTGTTATATATATATATATATATATATATATATAT 776
Db 301 AGAAATACATGACCCCTGTTATATATATATATATATATATATATATATAT 360
Qy 777 AGTCTTACATCTGGAATTAATTTTCAAAAAGAGAGAGAGAGAGAGAGAG 836
Db 361 AGTCTTACATCTGGAATTAATTTTCAAAAAGAGAGAGAGAGAGAGAGAG 420
Qy 837 CTCACGAGAGGCAATACCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 896
Db 421 CTCACGAGAGGCAATACCGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
Qy 897 TGTGTTAGCAAGTGCATCAGCTGACCAACACTGTATATCTGTGGATATGTC 956
Db 481 TGTGTTAGCAAGTGCATCAGCTGACCAACACTGTATATCTGTGGATATGTC 540
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Qy 1137 GAATCACTTTTACCTGTGCAATTTTGTGGCCAGTACAGATGACGGCTTT 1196
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Db 781 GGATGACGTTGAGATGAAGCAATTTTACCTTAATGACACAAATGATGAATCTCTGG 840
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Db 841 TCTGATCTTGAAGATCAATCAAGGAGCTGTCTGAGTACGTTCAAGTCAAAATACGT 900
QY 1317 GAAGAT 1322
Db 901 GAAGAT 906

RESULT 9
AL576190/c 902 bp mRNA linear EST 16-FEB-2001
LOCUS AL576190 LRI NPL006_PL2 Homo sapiens cDNA clone CSDDI072YE01 3
DEFINITION prime, mRNA sequence.
ACCESSION AL576190
VERSION AL576190.1 GI:12938088
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 902)
AUTHORS Li, W.-B., Gruber, C., Jesse, J., and Polayes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 Evry cedex - France
Email: sequef@genoscope.cns.fr, Web : www.genoscope.cns.fr.

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enriched, double-stranded cDNA was digested with Not I and
cloned into the Not I and Eco RV sites of the pCMVSPORT 6
vector. Library was normalized. Library was constructed by
Life Technologies. Contact : Feng Liang Life Technologies,
a division of Invitrogen 9800 Medical Center Drive
Rockville, Maryland 20850, USA Fax : (1) 301 610 8371
Email : fliang@life.com URL :
http://fulllength.invitrogen.com"

BASE COUNT 267 a 205 c 180 g 246 t 4 others
ORIGIN

Query Match 47.5%; Score 880; DB 9; Length 902;
Best Local Similarity 99.2%; Pred. No. 6.5e-201;
Matches 891; Conservative 3; Mismatches 3; Indels 1; Gaps 1;

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Db 599 TGTATTAATTTGGATGACGCTTCAATTAAGCAATTTTAACTTAATGACACAAATG 540
QY 1245 TGAATCTCTGCTCTTATCTTATGACAGTCAATCAAGGAGCTGTCTGATCTGCTTCAAG 1304
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QY 1305 TGAATAATACGTGAAGATCTGGGACATCTTGAAGATPAGGCCAAGTCTATGTTCTAG 1364
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QY 1365 GGCATGAATAATGGAGTCTCTCTGTTCTTCAATGATGTCCTGATTTGGCATTTATTA 1424
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QY 1425 TGCTTTGGAGGTCAAAAAGAGGCTTGGGCTGTGGATATPAGCACAGTCTCTTCAAGT 1484
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DEFINITION 5', mRNA sequence.
ACCESSION BM552364
VERSION BM552364.1 GI:18790164
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 1007)
AUTHORS NIH-MGC http://mgi.mgi.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bhs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed By: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
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Average insert size 2.1 Kb."
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DB	1	CTGACCGTGTGTCAGACAGTGCAGGTGCGTGTGCTCCCTCCCTATGCAAGCTGGTGTCTTACGGT	60		
QY	66	ACAGCGCCCTTGAATTGAGGACCATGAAACCGCAGCCGCAAGGTGACGTGCGTGGCTTGGGT	125		
DB	61	ACAGCGCCCTTGAATTGAGGACCATGAAACCGCAGCCGCAAGGTGACGTGCGTGGCTTGGGT	120		
QY	126	CCGCTGCGGCGCGGCCAAGAGACACCAACAAGGTAGAGCTGAGTAAAGAAAGTAATAA	185		
DB	121	CCGCTGCGGCGCGGCCAAGAGACACCAACAAGGTAGAGCTGAGTAAAGAAAGTAATAA	180		
QY	186	ACGCTCATTTGCTGAGGCAAGAGAAATTGCAAGAAAGAGGTGTGCGCAGTGATGAGA	245		
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DB	241	GGAGACAGGCACTCCTTCAGAAAGATGCGATGCGACCGCACCCAGGCAAGGCCCAAG	300		
QY	306	AGAGCCCTTGGAGAGATGATGACCCCAAGATGACAGAGCGCTTGATGATGATGAGCTGAC	365		
DB	301	AGAGCCCTTGGAGAGATGATGACCCCAAGATGACAGAGCGCTTGATGATGATGAGCTGAC	360		
QY	366	TGAGTACGACTTATGATTAATATGATGAGGAAGGTGACCCAGATGCTGAGACTCTTGGTGA	425		
DB	361	TGAGTACGACTTATGATTAATATGATGAGGAAGGTGACCCAGATGCTGAGACTCTTGGTGA	420		
QY	426	ATCTCTCTTGGGTCTTACGGTCTACGGGAGTAATGATCAAGATCTTACGTTACTCTGAA	485		
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QY	486	AGATACAGAACTATGAAACGTGAAGATTTCTTGATTTAAGCCCAAGATTAATCTTATAGT	545		
DB	481	AGATACAGAACTATGAAACGTGAAGATTTCTTGATTTAAGCCCAAGATTAATCTTATAGT	540		
QY	546	TTGTGGCCGAGCTGAACAGGACCAAGTGAATTTAGAGGTGCATGTTTATATCAAGAAGA	605		
DB	541	TTGTGGCCGAGCTGAACAGGACCAAGTGAATTTAGAGGTGCATGTTTATATCAAGAAGA	600		
QY	606	AGACTCTTTTATGTAACACCATGATATACTCTTGTCTGCATATCTCTGAGTGTGAATG	665		
DB	601	AGACTCTTTTATGTAACACCATGATATACTCTTGTCTGCATATCTCTGAGTGTGAATG	660		
QY	666	GCTGAATTTTGATCTTGAAGCCAGATGATTTCTACTGGAATTTACATTTGCTGTAGAAAAT	725		
DB	661	GCTGAATTTTGATCTTGAAGCCAGATGATTTCTACTGGAATTTACATTTGCTGTAGAAAAT	720		
QY	726	GACCCCTGTTATTTGAAGTGTGGGACCTTGATATAGTGAATCTTTTGAAGCACTTTTAC	785		
DB	721	GACCCCTGTTATTTGAAGTGTGGGACCTTGATATAGTGAATCTTTTGAAGCACTTTTAC	780		
QY	786	ACTCGGAAGTAACTTTCAAAAAAAGAAAGAAAGAAAGAAAGAGTCTCTCAGCAGA	845		
DB	781	ACTCGGAAGTAACTTTCAAAAAAAGAAAGAAAGAAAGAAAGAGTCTCTCAGCAGA	840		
QY	846	AGGGCATACCGATGCTGTCC-TTGACCTTTATCATGAATAGCTAATCAGAAATGTTTT	902		

Db	841	AAGCATACCATGCTGTCCTTTAGCTTATGAGTAATCAAGTAATCCAGAAATGTTT	898
RESULT 11			
LOCUS	BO948509		
DEFINITION	BO948509	894 bp	mRNA
ACCESSION	AGENCOURT_8795115	NIH_MGC_101	Homo sapiens
VERSION	5', mRNA sequence.		
KEYWORDS	BO948509		
SOURCE	BO948509.1	GI:22363987	
ORGANISM	human.		
REFERENCE	Homo sapiens		
AUTHORS	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
TITLE	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.		
JOURNAL	1 (bases 1 to 894)		
COMMENT	NIH-MGC http://mgs.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgabs-remail.nih.gov Tissue Procurement: ATCC CDNA Library Preparation: Rubin Laboratory, CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov Plate: L10M2613 row: n column: 08 High quality sequence start: 14 High quality sequence stop: 670. Location/Qualifiers		
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	/note="Organ: lung; Vector: pORB7; Site_1: EcoRI; Site_2: XhoI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCGCGAG(G). Library constructed by Ling Hong in the Berkeley of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC Library."		
BASE COUNT	264 a	167 c	210 g
ORIGIN		252 t	1 others
Query Match	96.7%; Score 865; DB 14; Length 894;		
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Matches	882; Conservative	0; Mismatches	11; Indels 1; Gaps 1,
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QY	450	CGGAGTATGATCAAGATCTTACCTTACTCTGAAAGTACAGAACATATGAACTGA	509
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QY	510	AGATTTCTTGATTAAGCCAGTATCTTATAGTTGTGGCCGAGCTGAACAGAGCA	569
Db	181	AGATTTCTTGATTAAGCCAGTATCTTATAGTTGTGGCCGAGCTGAACAGAGCA	240
QY	570	GTCGATTTAGAGTGCATGTTTATATCAAGAAAGCTTTTATATGACACATGA	629

Db	241	GTGCAATTAGAGGTCAGCTTTATATATACAAAGAAAGACTCTTTTATATGACACATGA	300
Qy	630	TATACTCTTGCTGCATATCTCTGAGTGTGGAATGCTGAAATTTTGATCCTAGCCAGA	689
Db	301	TATACTCTTGCTGCATATCTCTGAGTGTGGAATGCTGAAATTTTGATCCTAGCCAGA	360
Qy	690	TGATCTACTGGAATTTATCATTTGCTGTGAGAAACATGACCCCTGTTATTTGAATGTGGGA	749
Db	361	TGATCTACTGGAATTTATCATTTGCTGTGAGAAACATGACCCCTGTTATTTGAATGTGGGA	420
Qy	750	CCTTGATATAGGAGCTCTTTAGACCAGTCTTACACCTCGAGATGAACTTTCAAAAAA	809
Db	421	CCTTGATATAGGAGCTCTTTAGACCAGTCTTACACCTCGAGATGAACTTTCAAAAAA	480
Qy	810	GAAGAAAAAGAAAGAAAGAGATTCTCTCAGCAGAAAGGCAATACGATGCTGCTCTTGA	869
Db	481	GAAGAAAAAGAAAGAAAGAGATTCTCTCAGCAGAAAGGCAATACGATGCTGCTCTTGA	540
Qy	870	CCTTCATAGGAATAGCTTAATGAGAAATGTTTATGCAAGTGCATGACGTGACAAACACTGT	929
Db	541	CCTTCATAGGAATAGCTTAATGAGAAATGTTTATGCAAGTGCATGACGTGACAAACACTGT	600
Qy	930	AATTCTGTGGGATATGTCCTTTGGGGAACACAGAGTACCTCGCTGTACACAGACAA	989
Db	601	AATTCTGTGGGATATGTCCTTTGGGGAACACAGAGTACCTCGCTGTACACAGACAA	660
Qy	990	GGTCCAAACACTGCAGTTTCATCCATTTGAAACACAGACTCTGATTTTGTGCTCATATGA	1049
Db	661	GGTCCAAACACTGCAGTTTCATCCATTTGAAACACAGACTCTGATTTTGTGCTCATATGA	720
Qy	1050	TAACTCAGTGGCTTTGTATGACTGCGCAAGTCCAGATGAAGCCATCGAATGTGGCATT	1109
Db	721	TAACTCAGTGGCTTTGTATGACTGCGCAAGTCCAGATGAAGCCATCGAATGTGGCATT	780
Qy	1110	CAGTGGGAGATAGAGAGAGTGACTTTGGAATACATTTTCACTTTCATTTCTTGCCAG	1169
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RESULT 12

BO224661

LOCUS

BO224661

DEFINITION

AGENCOURT_7569692 NIH_MGC_92 Homo sapiens cDNA clone IMAGE:6043941

ACCESSION

BO224661

VERSION

BO224661.1

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

REFERENCE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

AUTHORS

1 (bases 1 to 869)

TITLE

NIH-MGC <http://mgc.nci.nih.gov/>.

JOURNAL

National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLML)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLML at: <http://image.lnl.gov>

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row: 1

column: 22

High quality sequence stop: 687.

Location/Qualifiers

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 LOCUS AGENCOURT 8342961 NIH_MGC_100 Homo sapiens cDNA clone IMAGE:6268799
 DEFINITION 5', mRNA sequence.
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 VERSION B0643631.1 GI:21767803
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 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 953)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: ggaabs-remail.nih.gov
 Tissue Procurement: CGAP (Stanford)
 cDNA Library Preparation: Rubin Laboratory
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
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 /note="Organ: Liver; Vector: pOT8; Site 1: XhoI; Site 2:
 EcoRI; cDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACGAG(G). Size-selected >500bp for average insert size
 1.8kb. Library constructed by Ling Hong in the laboratory
 of Gerald M. Rubin (University of California, Berkeley)
 using ZAP-cDNA synthesis kit (Stratagene) and Superscript
 II RT (Life Technologies). Note: this is a NIH_MGC
 Library."
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 Db 121 CGAAGTCCAGATGAAAGCATGATGATGCGATTCAGTGGGAGATGAGAGAGTGA 180
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 Db 181 TGGATACCTTTTACCTTGTATTTCTGGCAGATGATGAGGCTTTTATATAT 240
 Qy 1195 TTGATGACAGCTTCAGATTAAGCAATTTTACCTTAATGACACAGATGATGAATCTCT 1254

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 Db 301 GGTCTTATCTTACAGTCAATCAAGAGGCTGTCTGTGATCTTCACTGACCAATAC 360
 Qy 1315 GTGAAGATCTGGAGCATCTTACAGATTAAGGCAAGCTGATCTTACAGATGA 1374
 Db 361 GTGAAGATCTGGAGCATCTTACAGATTAAGGCAAGCTGATCTTACAGATGA 420
 Qy 1375 ATGGAGTCTCTCTTCTGTCTTCTCATGTGGCTGATTTGCAATTTATATGCTTTGA 1434
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 Db 781 GGCACCAAAATATCCGCTCTTGTGCTT-GCTCTTCAATGATGATGCTTTGAGGCTCT 840
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 VERSION B0646683.1 GI:21770855
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 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 941)
 AUTHORS NIH-MGC http://mgi.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: ggaabs-remail.nih.gov
 Tissue Procurement: CGAP (Stanford)
 cDNA Library Preparation: Rubin Laboratory
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
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 High quality sequence stop: 681.
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 SOURCE

[illegible]

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QY	940	GATATGTCCTTGAGGAAACC	959
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DEFINITION	B0651718	965 bp	linear
ACCESSION	AGNCNCOURT_830396	NIH_MGC_100	Homo sapiens cDNA clone IMAGE:62693433
VERSION	B0651718		
KEYWORDS	B0651718		
SOURCE	B0651718.1	GI:21775890	
ORGANISM	human.		
REFERENCE	Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.		
AUTHORS	NIH-MGC	http://mgs.nci.nih.gov/	
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL	Unpublished (1999)		
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaaps-f@mail.nih.gov Tissue Procurement: CGAP (Stanford) cDNA Library Preparation: Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLNL at: http://image.lnl.nih.gov Plate: LNCM2442 row: 1 column: 16 High quality sequence stop: 645.		
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	/lab_host="DH10B (phage-resistant)"		
	/note="Organ: liver; Vector: pOT7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC library."		
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Best Local Similarity	98.2%	Pred. No. 3e-187;	
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QY	151	CCAGACAGGTAGAGCTGAGTAAAGAAAGTAAACCGCTCATTTGCTGAGGCAAGGAG	210
Db	61	CCAGACAGGTAGAGCTGAGTAAAGAAAGTAAACCGCTCATTTGCTGAGGCAAGGAG	120
QY	211	AAATTGCAAGAAAGGTGTGTGCGAGTGATGAAGAAGAGAGACAGCAGTCTTCAGAAAT	270
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Job time : 9961 secs